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SERIES D, NUMBER 1

THIRTY-FOURTH ANNUAL REPORT
OF THE
BOARD OF TRUSTEES

OF THE
**OHIO STATE
UNIVERSITY**

TO THE
GOVERNOR OF OHIO
(FOR THE
Year Ending June 30, 1904

PARTS I-II

*Entered at the Columbus Postoffice as
Second-Class Matter*

UNIVERSITY
PUBLISHED BY THE UNIVERSITY
JUNE, 1904



THIRTY-FOURTH ANNUAL REPORT

OF THE

BOARD OF TRUSTEES

OF THE

OHIO STATE UNIVERSITY

TO THE

Governor of Ohio

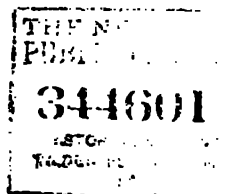
FOR THE

YEAR ENDING JUNE 30, 1904



Springfield, Ohio:
The Springfield Publishing Company,
State Printers.
1904.

3,117



ROY WEN
CLERK
VIA TEL

BOARD OF TRUSTEES—1903-1904.

		Term Expires.
PAUL JONES.....	Columbus.....	May 12, 1905.
OSCAR T. CORSON.....	Columbus.....	" 1906.
DAVID M. MASSIE.....	Chillicothe.....	" 1907.
JOHN T. MACK.....	Sandusky.....	" 1908.
*MYRON T. HERRICK.....	Cleveland.....	" 1909.
GEORGE K. NASH.....	Columbus.....	" 1909.
GUY W. MALLON.....	Cincinnati.....	" 1910.
J. McLAIN SMITH.....	Dayton.....	" 1911.

OFFICERS OF THE BOARD.

PAUL JONES.....	President.
J. McLAIN SMITH.....	Vice President.
ALEXIS COPE.....	Secretary.
LOUIS F. KIESEWETTER.....	Treasurer.

COMMITTEES OF THE BOARD.

EXECUTIVE	FARM	FINANCE
J. McLAIN SMITH	J. McLAIN SMITH	D. M. MASSIE
PAUL JONES	JOHN T. MACK	PAUL JONES
GUY W. MALLON	OSCAR T. CORSON	MYRON T. HERRICK

FACULTY AND COURSES OF STUDY.

JOHN T. MACK	OSCAR T. CORSON	GUY W. MALLON.
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* Resigned January 12, 1904.

Members of the University Faculty and Other Instructors 1903-1904

WILLIAM OXLEY THOMPSON	University Grounds
President	
THOMAS CORWIN MENDENHALL	Florence, Italy
Emeritus Professor of Physics	
ROBERT WHITE McFARLAND	Oxford, Ohio
Emeritus Professor of Civil Engineering	
SIDNEY AUGUSTUS NORTON	363 East Town Street
Emeritus Professor of Chemistry	
STILLMAN W. ROBINSON	1353 Highland Street
Emeritus Professor of Mechanical Engineering	
WILLIAM HENRY SCOTT	131 Fifteenth Avenue
Professor of Philosophy	
NATHANIEL WRIGHT LORD	338 West Eighth Avenue
Professor of Mineralogy and Metallurgy, Director of the School of Mines	
SAMUEL CARROLL DERBY	93 Fifteenth Avenue
Professor of Latin	
WILLIAM RANE LAZENBY	348 West Eighth Avenue
Professor of Horticulture and Forestry	
JOSIAH RENICK SMITH	950 Madison Avenue
Professor of the Greek Language and Literature	
HENRY ADAM WEBER	1342 Forsythe Avenue
Professor of Agricultural Chemistry	
BENJAMIN FRANKLIN THOMAS	University Grounds
Professor of Physics, and State Sealer of Weights and Measures	
GEORGE WELLS KNIGHT	85 Jefferson Avenue
Professor of American History and Political Science and of Law	
ROSSER DANIEL BOHANNAN	Sixteenth and Indiana Avenues
Professor of Mathematics	
ALBERT MARTIN BLEILE	218 King Avenue
Professor of Anatomy and Physiology	
WILLIAM ASHBROOK KELLERMAN	175 Eleventh Avenue
Professor of Botany	
GEORGE BEECHER KAUFFMAN	University Grounds
Professor of Pharmacy, and Dean of the College of Pharmacy	
BENJAMIN LESTER BOWEN	775 East Broad Street
Professor of Romance Languages and Literatures	
JOSEPH VILLIERS DENNEY	230 West Tenth Avenue
Professor of Rhetoric and the English Language, and Dean of the College of Arts, Philosophy and Science	
ALLEN CAMPBELL BARROWS	85 West Tenth Avenue
Professor of English Literature	
EDWARD ORTON, JR	The Normandie
Professor and Director of the Department of Clay-Working and Ceramics and Dean of the College of Engineering	

†Absent on leave.

•WILLIAM FORREST HUNTER	1032 Bryden Road
Professor of Law and Dean of the College of Law	
•JAMES HENRY COLLINS	The Chittenden; New Hayden Building
Professor of Law	
EMILIUS OVIATT RANDALL	257 Woodland Avenue, Supreme Court Building
Professor of Law	
WILLIAM THOMAS MAGRUDER	191 King Avenue
Professor of Mechanical Engineering	
EDGAR BENTON KINKEAD	Wyandotte Avenue; New Hayden Building
Professor of Law	
WILLIAM HERBERT PAGE	1068 Franklin Avenue; 27 Board of Trade
Professor of Law	
WILLIAM McPHERSON	University Campus
Professor of Chemistry	
JOSEPH NELSON BRADFORD	54 West Tenth Avenue
Professor of Architecture and Drawing	
DAVID STUART WHITE	West Fifth Avenue
Professor of Veterinary Medicine, and Dean of the College of Veterinary Medicine.	
HERBERT OSBORN	485 King Avenue
Professor of Zoology and Entomology	
CHRISTOPHER P. LINHART	O. S. U. Gymnasium; The Vendome
Professor of Physical Education and Director of the Gymnasium	
OLIVE B. JONES	95 Eleventh Avenue
Librarian	
HENRY CURWEN LORD	University Grounds
Professor of Astronomy and Director of the Emerson McMillen Observatory	
FRANK EDWIN SANBORN	303 West Eighth Avenue
Professor and Director of the Department of Industrial Arts	
FRANK ARNOLD RAY	137 King Avenue
Professor of Mine Engineering	
•FREDERICK CONVERSE CLARK	1634 Neil Avenue
Professor of Economics and Sociology	
JOHN ALLEN SHAUCK	95 Winner Avenue; Supreme Court Building
Professor of Law	
CAPT. GEORGE L. CONVERSE, U. S. A. (Retired) ..	94 Hoffman Ave., 23 East State St.
Professor of Military Science and Tactics	
JOHN WRIGHT DECKER	325 West Eighth Avenue
Professor of Dairying	
EMBURY ASBURY HITCHCOCK	380 West Eighth Avenue
Professor of Experimental Engineering	
FRANCIS CARY CALDWELL	401 West Sixth Avenue
Professor of Electrical Engineering	
CHARLES SMITH PROSSER	114 West Tenth Avenue
Professor of Geology	
JOHN ADAMS BOWNOCKER	1594 Neil Avenue
Professor of Inorganic Geology and Curator of the Museum	
ALFRED DODGE COLE	237 Eleventh Avenue
Professor of Physics	
MINNIE AVA NELLIE STONER	95 West Eleventh Avenue
Professor of Domestic Science and Head of Department of Domestic Economy	
WILBUR HENRY SIEBERT	182 West Tenth Avenue
Professor of European History and Secretary of the University Faculty	
CHRISTOPHER ELIAS SHERMAN	772 Oak Street
Professor of Civil Engineering	
ALBERT HENRY HELLER	1249 Neil Avenue
Professor of Civil Engineering	

•Died June 15th, 1904.

•Died January 8th, 1904.

•Died September 19th, 1903.

OHIO STATE UNIVERSITY.

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CHARLES SUMNER PLUMB	107 West Eleventh Avenue
Professor of Animal Husbandry	
WILLIAM W. BOYD	29 South Monroe Avenue
High School Visitor	
SEPTIMUS SISSON	1619 Highland Street
Professor of Comparative Anatomy	
HOMER CHARLES PRICE	388 West Eighth Avenue
Professor of Rural Economics and Dean of the College of Agriculture and Domestic Science	
LEWIS ADDISON RHOADES	333 West Eighth Avenue
Professor of Germanic Languages and Literatures	
GEORGE WASHINGTON RIGHTMIRE	1528 Worthington Street
Professor of Law	
SMITH WHITWORTH BENNETT	171 King Avenue
Professor of Law	
GEORGE WASHINGTON McCOARD	797 Park Street
Associate Professor of Mathematics	
*CHARLES WALTER MESLOH	University Grounds
Associate Professor of Germanic Languages and Literatures	
ARTHUR WINFRED HODGMAN	202 West Eighth Avenue
Associate Professor of the Classic Languages	
†CORNELIA PORTER SOUTHER	
Associate Professor of Domestic Art	
†CLARA MAUD BERRYMAN	95 West Eleventh Avenue
Director and Associate Professor of Physical Education for Women	
WILLIAM EDWARDS HENDERSON	182 West Tenth Avenue
Associate Professor of Chemistry	
JOSEPH RUSSELL TAYLOR	448 West Seventh Avenue
Associate Professor of English Literature	
JAMES ELLSWORTH BOYD	60 West Maynard Avenue
Associate Professor of Mathematics	
CHARLES A. BRUCE	235 West Tenth Avenue
Associate Professor of the Romance Languages	
THOMAS EWING FRENCH	1458 Worthington Street
Associate Professor of Architecture and Drawing	
DAVID R. MAJOR	387 King Avenue
Associate Professor of Education	
CHARLES WILLIAM FOULK	1656 Neil Avenue
Associate Professor of Chemistry	
JOHN H. SCHAFFNER	40 West Tenth Avenue
Associate Professor of Botany	
CHARLES BRADFIELD MORREY	188 West Tenth Avenue
Associate Professor of Bacteriology	
JAMES STEWART HINE	1340 Hunter Avenue
Associate Professor of Zoology and Entomology	
FRANCIS LEROY LANDACRE	299 West Sixth Avenue
Associate Professor in Zoology and Entomology	
WALLACE S. ELDEN	55 West Ninth Avenue
Associate Professor of Classic Languages	
FRANK HARVEY ENO	251 West Ninth Avenue
Associate Professor of Civil Engineering	
ALFRED VIVIAN	244 West Tenth Avenue
Associate Professor of Agricultural Chemistry	
DENNIS HAMMOND UDALL	198 West Ninth Avenue
Associate Professor of Veterinary Surgery and Obstetrics	
MAY SECREST	162 West Tenth Avenue
Associate Professor of Domestic Art	

*Died March 15th, 1904.

†Resigned.

J. WARREN SMITH	1422 Oak Street
Lecturer on Meteorology	
WILLIAM LUCIUS GRAVES	1313 Forsythe Avenue
Assistant Professor of Rhetoric and English Language	
CLAIR ALBERT DYE	1569 Worthington Street
Assistant Professor of Pharmacy	
†CHARLES LINCOLN ARNOLD	323 West Eighth Avenue
Assistant Professor of Mathematics	
KARL DALE SWARTZEL	308 West Eighth Avenue
Assistant Professor of Mathematics	
GEORGE H. McKNIGHT	269 East Broad Street
Assistant Professor of Rhetoric and English Language	
FRED A. FISH	241 West Fourth Avenue
Assistant Professor of Electrical Engineering	
WILLIAM ABNER KNIGHT	206 West Lane Avenue
Assistant Professor of Machine Shop Practice	
HARRY WALDO KUHN	308 West Eighth Avenue
Assistant Professor of Mathematics	
JAMES E. HAGERTY	212 Tenth Avenue
Assistant Professor of Economics and Sociology and Acting Head of Department.	
*THEODORE C. SMITH	244 West Tenth Avenue
Assistant Professor of American History and Political Science	
†FREDERICK EDWARD KESTER	Göttingen, Germany
Assistant Professor of Physics	
THOMAS HARVEY HAINES	396 King Avenue
Assistant Professor of Philosophy	
ALONZO HUBERT TUTTLE	215 West Tenth Avenue
Assistant Professor of American History and Political Science	
VERNON H. DAVIS	University Grounds
Assistant Professor of Horticulture and Forestry	
OSCAR V. BRUMLEY	University Grounds
Assistant Professor of Veterinary Medicine	
HORACE JUDD	245 West Fourth Avenue
Assistant Professor of Experimental Engineering	
EDWIN F. CODDINGTON	39 West Eleventh Avenue
Acting Assistant Professor of Mathematics	
EDGAR SHUGERT INGRAHAM	303 West Seventh Avenue
Assistant Professor of Romance Languages	
†MERRITT FINLAY MILLER	1526 Worthington Street
Assistant Professor of Agronomy	
ROBERT F. EARHART	1656 Neil Avenue
Assistant Professor of Physics	
JAMES McILVAINE PHILLIPS	
Assistant Professor of Veterinary Medicine	
GEORGE BURRIDGE VILES	229 West Eleventh Avenue
Assistant Professor of Germanic Languages and Literatures	
WILLIAM C. MILLS	78 West Tenth Avenue
Curator of Archaeology	
MAUDE WINIFRED MARTIN	1631 Neil Avenue
Director of Physical Education for Women	
BURT BIDWELL HERRICK	167 Tenth Avenue
Instructor in Cheese Making	
WILLIAM HENRY RENCK	184 West Frambes Avenue
Instructor in Pattern Making and Founding	
CHARLES PHILIP CROWE	Corner Eighth and Wesley Avenues
Instructor in Forging	

†Absent on leave.

*Resigned.

†Absent on leave.

†Resigned.

OHIO STATE UNIVERSITY.

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ARTHUR ERNEST DAVIES	33 Fifteenth Avenue
Instructor in Philosophy	
*ALBERT EARL VINSON	134 West Ninth Avenue
Instructor in Agricultural Chemistry	
THOMAS KENYON LEWIS	96 East Eighth Avenue
Instructor in Drawing	
SILAS MARTIN	317 Fifteenth Avenue
Instructor in Drawing	
JOSEPH HENRY VOSSKUEHLER	54 West Tenth Avenue
Instructor in Drawing	
ALBERT VICTOR BLEININGER	116 West Ninth Avenue
Instructor in Ceramics	
BERTHOLD AUGUST EISENLOHR	377 King Avenue
Instructor in Germanic Languages	
SAMUEL EUGENE RASOR	1594 Neil Avenue
Instructor in Mathematics	
EDWARD EVERETT SOMMERMEIR	1590 Neil Avenue
Instructor in Metallurgy and Mineralogy	
DON CARLOS HUDDLESON	450 West Seventh Avenue
Instructor in Physical Education	
†FRANK RUHLEN	University Grounds
Instructor in Zootechny	
DELBERT ALONZO CROWNER	West Jefferson, Ohio
Instructor in Butter Making	
MELVIN DRESBACH	377 West King Avenue
Instructor in Anatomy and Physiology	
RUDOLPH HIRSCH	1060 South Front Street
Instructor in Agricultural Chemistry	
EDGAR HOLMES McNEAL	1340 Highland Street
Instructor in European History	
H. DIEDRICH BRUNING	768 Oak Street
Instructor in Civil Engineering	
JOHN SATTERLEE TIDBALL	35 Price Street
Instructor in Architecture and Drawing	
HENRY RUSSELL SPENCER	1473 Neil Avenue
Instructor in American History and Political Science	
HARRIET TOWNSHEND	53 West Eleventh Avenue
Assistant in Library	
MAUD DOROTHY JEFFREY	1251 Neil Avenue
Assistant in Library	
GERTRUDE STOWELL KELLICOTT	156 West Sixth Avenue
Assistant in Library	
*CLAUDE B. GUITTARD	80 McMillen Avenue
Assistant in Library	
*WILLIAM L. DAVIES	47 West Eighth Avenue
Assistant in Civil Engineering	
SARAH TRACY BARROWS	85 West Tenth Avenue
Assistant in Germanic Languages and Literatures	
MARION WILSON MUMMA	47 West Tenth Avenue
Assistant in Chemistry	
LOUIS BRYANT TUCKERMAN, JR.	1451 Worthington Street
Assistant in Physics	
EDWARD NATHAN WEBB	144 West Ninth Avenue
Assistant in Chemistry	
HERMINE DE NAGY	1346 Highland Street
Assistant in Romance Languages	

**Absent on leave.

†Resigned.

*Resigned.

MARTHA HARTFORD	65 West Eleventh Avenue
Assistant in Library	
RAYMOND JESSE SEYMOUR.....	76 West Third Avenue
Assistant in Anatomy and Physiology	
BENJAMIN FRANKLIN MAAG	176 West Ninth Avenue
Assistant in Astronomy	
†OTTO EMERY JENNINGS	University Grounds
Assistant in Botany	
CATHERINE EMILY ANDREWS	1013 East Broad Street
Assistant in Chemistry	
ROSS C. PURDY	245 West Eleventh Avenue
Assistant in Ceramics	
†WALTER RAYMOND JUDSON	1550 Neil Avenue
Assistant in Mechanical Engineering	
WALLACE ELDEN MILLER	468 Goodale Street
Temporary Assistant in Economics and Sociology	
LLOYD A. GRIGSBY	1023 Neil Avenue
Temporary Assistant in Latin	
ROY EDWIN CARTZDAFNER	239 West Tenth Avenue
Assistant in Mechanical Engineering	
HARLAN H. YORK	University Grounds
Assistant in Botany	
CYRUS ALAN MELICK	967 Say Avenue
Assistant in Civil Engineering	
E. F. MANGOLD	
Assistant in Dairy Laboratory	
MARY MALLOY	1546 Highland Street
Fellow in Rhetoric and English Language	
JAMES BLOSSBRENNER SANDERS	128 West Tenth Avenue
Fellow in Zoology and Entomology	
GILBERT LEE PENNOCK	164 West Ninth Avenue
Fellow in Rhetoric and English Language	
FREDERICK JOHN MUIRIE	1478 Pennsylvania Avenue
Fellow in Rhetoric	
JAMES ANDERSON BEER	43 East Ninth Avenue
Fellow in Anatomy and Physiology	
CLINTON GEORGE STEWART	169 West Eleventh Avenue
Fellow in Chemistry	
JOHN ANDERSON WILKINSON	132 Tenth Avenue
Fellow in Chemistry	
CHARLES CLIFFORD HUNTINGTON	85 West Ninth Avenue
Fellow in Economics and Sociology	
MAX DELOS MORTON	212 West Tenth Avenue
Fellow in Library	
MAX WITHROW MORSE	161 West Eleventh Avenue
Fellow in Zoology and Entomology	

†Resigned.

EXECUTIVE DEPARTMENT.

1903-1904.

WILLIAM O. THOMPSON.....President
ALEXIS COPESecretary Board of Trustees
KATHERINE H. DUNCAN.....Executive Clerk
EDITH D. COCKINS.....Registrar
CARL E. STEEB.....Accountant
EDITH R. HUBLER.....Secretary's Clerk and Stenographer

CHIEF ENGINEER.

WILLIAM C. MCCracken.

STATE GEOLOGIST.

PROFESSOR EDWARD ORTON, JR.

STATE SEALER OF WEIGHTS AND MEASURES.

THE PROFESSOR OF PHYSICS, *Ex-Officio*.

COLUMBUS, O., October 1, 1904.

His Excellency, HON. MYRON T. HERRICK, Governor of Ohio:

DEAR SIR:--I have the honor to transmit herewith the thirty-fourth annual report of the Board of Trustees, Ohio State University.

Very respectfully,

Your obedient servant.

ALEXIS COPE *Secretary*

REPORT OF BOARD OF TRUSTEES

OFFICE OF THE BOARD OF TRUSTEES,

OHIO STATE UNIVERSITY,

June 30, 1904.

HON. MYRON T. HERRICK, *Governor of Ohio*:

SIR:—In accordance with law, the Board of Trustees respectfully submits the thirty-fourth annual report of the Ohio State University, it being for the fiscal year ending June 30, 1904.

ENDOWMENTS.

The part of the irreducible debt of the State which forms the principal endowment of the University, at the date of the last annual report, June 30, 1903, was \$568,906.46, upon which the annual interest was \$34,132.58.

Under the operations of an act of the General Assembly entitled, "An act to quiet title to unpatented lands in the Virginia Military District of Ohio," passed March 14, 1889, the following sums were added thereto: November 19, 1903, \$105.60; December 23, 1903, \$1,302.43; January 7, 1904, \$408.74; February 10, 1904, \$870.80; March 2, 1904, \$699.50; March 4, 1904, \$187.50; March 25, 1904, \$113.94; April 13, 1904, \$1,101.31; April 25, 1904, \$338.11; May 6, 1904, \$53.75; May 14, 1904, \$310.65; June 21, 1904, \$2,847.68. Total additions during the year, \$8,340.01, making the principal endowment fund June 30, 1904, \$577,246.47, on which the annual interest is \$34,634.79.

THE WILLIAM JENNINGS BRYAN PRIZE FUND.

The principal of the original sum of two hundred and fifty dollars, which was given to the University by Hon. William Jennings Bryan, in 1898, on condition that the annual interest thereon should be awarded as a prize for the best essay discussing the principles which underlie our form of government, and which was added to the irreducible debt of the State, under the provisions of section 4105-15, Revised Statutes of Ohio, under the operations of section 4105-47, said statutes, was augmented by additions of interest so that on June 30, 1903, as stated in the last annual report it had reached the sum of \$308.69. There having been no award of said prize during the year just closed under the operations of the section

of the Revised Statutes last above mentioned, said sum has been further augmented by additions of interest until the principal sum June 30, 1904, is \$327.48.

THE ROBINSON FELLOWSHIP IN ENGINEERING.

The fellowship endowed by Professor S. W. Robinson in the sum of \$5,000.00 as stated in the last annual report was not awarded during the year just closed. As was stated in the last annual report, the principal sum above named has been paid into the State treasury, and under the operations of the sections of the statutes above mentioned on June 30, 1903, had reached the sum of \$5,125.00.

Further additions under the operations of said laws during the year just closed have increased said principal sum so that on June 30, 1904, it is \$5,439.75.

THE C. NEWTON BROWN SCHOLARSHIP FUND.

The C. Newton Brown Scholarship Fund, whose history was given in the last annual report, was also made a part of the irreducible debt of the State. The original sum was \$1,000.00 and was paid into the State treasury May 18, 1903. Under the provisions of law aforementioned said principal sum has also been increased by additions of interest and at this date, June 30, 1904, is \$1,068.33.

RECEIPTS AND DISBURSEMENTS.

The receipts and disbursements for the year ending June 30, 1904, are as follows:

RECEIPTS.

Balance in treasury June 30, 1903.....	\$ 6,910 28
Interest on endowment.....	34,257 37
State levy.....	341,380 92
Sale certificates of indebtedness.....	30,000 00
Appropriations, act of Congress, 1890.....	25,000.00
Sale refunding bonds	31,135 80
Rents	2,062 70
Student fees	45,305 21
Sale store room cards and supplies.....	9,100 00
Diploma fees	1,020 00
Rents of Page lands for reinvestment.....	31,940 26
Lake Laboratory fees	300 00
Summer shop work	499 00
Veterinary clinic	1,053 95
National Brick Manufacturer's Scholarship.....	250 00
Siebert Library	200 00

OHIO STATE UNIVERSITY.

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Rents Page lands	9,434 21
State appropriation temporary equipment.....	12,117 83
Miscellaneous	391 05
Total receipts	\$582,360 58

DISBURSEMENTS.

Bonds and interest.....	\$ 76,212 50
Salaries instruction	179,198 63
Salaries administration	36,549 04
Investment and reinvestment rents Page will lands.....	63,642 78
Expenses of trustees.....	364 69
Repairs, buildings	7,724 00
Repairs and changes heat, light and power plant.....	6,011 93
Fuel.....	23,190 90
Gas	1,611 93
Water rates	3,007 10
Roads and grounds.....	2,931 18
Printing and advertising	2,289 18
Blanks, blank books and stationery.....	1,797 71
Postage	676 10
Furniture, cases and shelving	704 66
Rent fire alarm and signal boxes.....	487 51
Telephone service	684 01
Telegrams	51 66
Messenger and guide service	298 60
Oils.....	372 97
General supplies	913 43
Freight and cartage	1,181 54
Commencement expenses	1,268 19
Examination paper	548 93
Apparatus and supplies from department appropriations.....	12,571 51
Apparatus and supplies from chemical store room appropriations..	9,112 75
Labor from department appropriations.....	2,642 61
Extra watchmen and janitors.....	235 89
Library books	4,334 63
Books not out of library funds.....	1,643 95
Library binding	1,162 29
Library supplies	411 41
Extra labor in library.....	1,060 36
Extra clerks.....	141 83
Extra labor in store room.....	255 20
N. B. M. A. Scholarship.....	176 64
Expenses High School Visitor.....	621 39
Law building	1,252 85
Lake laboratory building.....	3,386 78
Addition to chemical building.....	3,191 47
Engineering building	56,884 87
Veterinary building	13,036 43
Physics building	13,826 67
Wrecking chemical building	2,626 78
Temporary equipment	12,117 83
Equipment Engineering and Veterinary buildings.....	9,823 86

Equipment law building.....	801 50
New boiler	5,933 13
Dials tower clock	360 00
Veterinary clinic	376 75
Miscellaneous	617 03
Total disbursements.....	\$570,325 58
Balance in treasury June 30, 1904.....	12,035 00

The treasurer's report herewith filed contains a complete itemized statement of such receipts and disbursements.

RECEIPTS AND DISBURSEMENTS.

FARM.

The dean of the college of agriculture has entire charge of that portion of the grounds devoted to farm crops and experiments, and also of the dairy. He receives and disburses all moneys arising from sales of farm and dairy products, and submits his books of account and vouchers for each month for inspection by the Board of Trustees.

RECEIPTS AND DISBURSEMENTS.

The balance of cash on hand June 30, 1903, was.....	\$ 1,533 00
The receipts from sales of farm and dairy products during the year.....	11,782 20
Total	\$13,315 20
And the disbursements	12,453 74
Leaving a balance June 30, 1904.....	\$861 46

HORTICULTURAL GARDENS.

The same plan prevails in regard to that part of the grounds used by the professor of horticulture in the production of fruit and garden products. He also presents his books of account and vouchers monthly for examination by the Board of Trustees.

During the year ending June 30, 1904, his receipts from sales of such products were	\$1,901 34
And the disbursements	2,069 34
Leaving a deficiency to be provided for of.....	\$168 00

ADDITIONS TO GENERAL ENDOWMENT.

Up to June 30, 1903, the additions to the general endowment fund, under operations of an act of the General Assembly, passed March 14, 1889, entitled, "An act to quiet title to unpatented lands in the Virginia

Military District of Ohio" (O. L. 96, p. 92), an act passed April 21, 1893, entitled "An act for the relief of certain persons who formerly held lands in the Virginia Military District of Ohio" (O. L. 90, p. 20), an act amendatory to said last mentioned act passed May 21, 1894 (O. L. 91, p. 375), an act passed April 25, 1898, entitled, "An act making appropriations for the relief of certain persons who formerly held lands in the Virginia Military District of Ohio" (O. L. 93, p. 257), and an act passed April 10, 1900, entitled "An act making appropriations for the relief of certain persons who formerly held lands in the Virginia Military District of Ohio" (O. L. 94, p. 117), were \$31,065.04.

During the year ending June 30, 1904, under the operations of said first mentioned act there was added to said general endowment the sum of \$8,340.01, making the total additions under the operations of said several acts \$39,405.05.

NEW MORRILL FUND.

The following are the receipts and disbursements for the year ending June 30, 1904, of the appropriations made by act of Congress, of August 30, 1890, and known as the "New Morrill Fund."

RECEIPTS.

Balance in treasury June 30, 1903.....	\$192 15
Appropriation for year ending June 30, 1904.....	25,000 00
Total.....	\$25,192 15

DISBURSEMENTS.

For instruction and facilities in agriculture.....	\$6,047 36
For instruction and facilities in mechanic arts.....	6,542 75
For instruction and facilities in English language.....	1,770 00
For instruction and facilities in mathematical science.....	2,250 00
For instruction and facilities in natural science.....	7,520 43
For instruction and facilities in economic science.....	650 00
Total	\$25,080 54
Balance in treasury June 30, 1904.....	\$111 61

Said receipts and disbursements are included in the preceding general statement of aggregate receipts and disbursements.

The act of Congress making this annual appropriation requires that a detailed statement of the receipts and disbursements thereof, showing specifically the purposes to which the funds have been applied, shall be made to the Secretary of the Interior. This report for the year ending June 30, 1904, is appended to the report of the treasurer, filed herewith.

BONDED INDEBTEDNESS.

The bonded indebtedness of the university June 30, 1903, was \$255,000 due and payable as follows: \$55,000.00 December 1, 1903; \$10,000.00 June 1, 1904; \$15,000.00 December 1, 1904; \$10,000.00 June 1, 1905; \$15,000.00 December 1, 1905; \$25,000.00 December 1, 1906; \$25,000.00 December 1, 1907; \$25,000.00 December 1, 1908; \$25,000.00 December 1, 1909; \$25,000.00 December 1, 1910; \$25,000.00 December 1, 1911. Of this indebtedness \$20,000.00 bore interest at 6% and \$235,000.00 at 4% per annum, payable semi-annually.

Under and pursuant to the provisions of an act of the general assembly entitled "An act to authorize the board of trustees of the Ohio State University, to refund and extend the time of payment of portions of the bonded indebtedness as the same becomes due," passed April 23, 1898, (O. L. 93, p. 221), \$30,000.00 of the 4% certificates of indebtedness falling due December 1, 1903, were taken up by an issue of the same amount of 4½% refunding bonds, falling due December 1, 1912.

Said refunding bonds brought a premium of \$1,135.80. The remaining \$25,000.00 falling due December 1, 1903, were paid, as was also the \$10,000.00 6% certificates of indebtedness falling due June 1, 1904.

Such reductions of the former indebtedness of the University left the amount remaining \$220,000.00, which is due and payable as follows:

\$15,000.00 December 1, 1904; \$10,000.00 June 1, 1905; \$15,000.00 December 1, 1905; \$25,000.00 December 1, 1906; \$25,000.00 December 1, 1907; \$25,000.00 December 1, 1908; \$25,000.00 December 1, 1909; \$25,000.00 December 1, 1910; \$25,000.00 December 1, 1911; and \$30,000.00 December 1, 1912.

NEW INDEBTEDNESS.

On May 10, 1902, the general assembly passed an act authorizing the Board of Trustees of the Ohio State University to issue certificates of indebtedness to an amount not exceeding two hundred thousand dollars, for the purpose of providing for the erection of needed buildings and equipment, said certificates of indebtedness were to bear interest not in excess of four per cent. per annum, payable semi-annually, and were to be issued in anticipation of the state levies for the support of the University. The Board of Trustees were reluctant to increase the indebtedness of the University, if it could be avoided, but the financial exigencies were such that on the 21st day of December, 1903, \$30,000.00 certificates of indebtedness were issued in pursuance of the act aforementioned and were bid in by the treasurer of the university, as an investment for that amount of the rents received from the Page will lands. Said certificates are dated December 15, 1903, and are payable December 15, 1904.

BURNING OF CHEMICAL HALL.

In the last annual report mention was made of the fact that an addition to chemical hall was just being completed at a cost of about \$20,000.00. On the evening of February 19, 1904, this building caught fire and was consumed, together with the greater part of its valuable equipment, entailing a loss of about \$100,000.00. The fire caught in a hood where an assistant had carelessly left a gas burner lighted, and was soon beyond control. The night was very cold, the temperature ten degrees below zero. The city fire department was slow in reaching the building, and slow in getting the fire engines started after they arrived. The firemen fearing explosions were kept outside the building, and did little to check the flames. The departments of chemistry, metallurgy, mine engineering and pharmacy were housed in this building, and suddenly found themselves homeless.

Fortunately the General Assembly was in session, and at once made an appropriation of \$15,000.00 for the purpose of temporarily providing for these departments, in other buildings.

The funds were immediately available and the work of providing and furnishing the necessary chemical store room and laboratories and other facilities for the burned out departments was pushed so rapidly, that their work though materially interfered with was not suspended.

NEW BUILDINGS.

The provisions made for the burned out departments were of course only temporary. The General Assembly was prompt to realize the necessity for new buildings in which to house them and after full examination and consideration of the situation appropriated the sum of \$100,000.00 for a new chemical building, in which to house the departments of chemistry and pharmacy, and the sum of \$85,000.00 for a building for the departments of metallurgy and mineralogy, mine engineering and ceramics.

Architects have been employed to prepare plans for these buildings and it is hoped to have them well under way during the present building season.

THE ENGINEERING BUILDING.

(Brown Hall.)

The Engineering Building described in the last annual report was so far completed at the opening of the last fall term that it was occupied by the departments of architecture, drawing and civil engineering. It has since been completed at a cost of \$80,717.17. It has been named "Brown Hall" in honor of the late C. Newton Brown, professor of civil engineering.

THE VETERINARY BUILDING.

The Veterinary Building, also described in the last annual report, was also finished in time for occupancy at the fall term 1903, and was occupied by the departments of veterinary medicine and bacteriology. The building is devoted exclusively to lectures and laboratory work, and when the chemical building was burned space was found in it for the temporary accommodation of the department of pharmacy.

It was completed at a cost of \$37,007.85.

BUILDING FOR DEPARTMENT OF PHYSICS.

The plans, specifications and estimates for a building for the department of physics, to cost when completed \$120,000.00, that portion to be constructed at present to cost not exceeding \$80,000.00, were completed and approved by the Governor, Auditor of State and Secretary of State. Due advertisement for sealed proposals for its construction was made and on the 21st day of December, 1903, the contract for the same was awarded to D. W. McGrath of Columbus, O., at his bid of \$69,773.00. The Board of Trustees reserved from the contract the electric wiring, estimated cost \$2,000.00, and the tunnel for steam water and gas pipes and electric wires, estimated to cost \$1,800.00, believing that this work could be better and more economically done by the University itself. The contract provides that the building shall be completed by September 20, 1904, but the lateness of the season and the bad weather have so retarded the work that it is not likely the building will be ready for occupancy at that time.

LAKE LABORATORY.

The Lake laboratory building at Cedar Point on Lake Erie, mention of which was made in the last annual report, was completed early in the year at a cost of \$3,386.78, and was occupied during a part of the summer vacation of 1903. It offers a fine opportunity for scientific study of fresh water forms and is attracting students from all parts of the country. It will doubtless prove a most valuable addition to the equipment of the University.

The laboratory was formally opened on the 2nd day of July, 1903, when addresses were made by Professors Herbert Osborn and Jos. V. Denney of the Ohio State University, Hon. John Mack of Sandusky, and others. Professor Herbert Osborn has been made the director of the laboratory.

THE CAMPUS.

During the past year there was expended on the campus the sum of \$2,431.18. A large portion of this money was expended in grading about

the new buildings and the balance in keeping the lawns, roads and walks in repair.

When the buildings now under construction, and for which plans are preparing, are completed, a much larger expenditure will be required to put the grounds in proper order.

Steps have been taken to have perfected a complete plan of the grounds, showing the location of all the buildings necessary for a complete plan. Until this plan is completed it is not likely that extensive improvements will be undertaken.

The committee to consider the matter of an independent water supply, of which Professor Ray is chairman, whose preliminary work was mentioned in the last annual report, has submitted an exhaustive and valuable report giving the results of its investigations in detail, together with plans, specifications and estimates for an independent plant.

Said committee recommends procuring the water supply for the University from shallow wells, and the softening of that portion used in the boilers, and finds that the cost will be a little more than is now paid for city water.

Said report has been referred to a committee of the Board of Trustees for examination and report.

THE PAGE WILL CASES.

Since the last annual report the cases pending in the Supreme Courts of Ohio and Illinois in which it was sought to set aside the devise to the University in the will of the late Hon. Henry F. Page, of about 870 acres of land in Ohio and 960 acres in the state of Illinois, have both been decided in favor of the University. There remains only the case pending in the United States Circuit Court of Appeals and the question of jurisdiction certified by that Court to the United States Supreme Court. The last named case only concerns the Ohio lands. As the litigation involving the Illinois lands is now closed, it becomes the duty of the Board of Trustees to sell such lands and pay the proceeds into the state treasury as a part of the endowment fund. This will be done as soon as a purchaser or purchasers can be secured to take the lands on favorable terms.

A favorable decision of the cases in the United States Circuit Court of Appeals is confidently expected in a few months at furthest, when the Ohio lands will also be disposed of in the same manner.

The University has been in possession of these lands for more than a year and the rents and profits therefrom since the death of the widow of Mr. Page have been received by the University. The amount of such rents and profits to June 30, 1903, were \$27,711.74. On July 28, 1903, the further sum of \$3,990.78 was received and on September 4, 1903, the entire sum of such rents and profits, to-wit, \$31,702.52, was invested pending the determination of the aforesaid suits. On June 29, 1904, the further sum

of \$5,443.43 was received, making the gross amount of such rents and profits received including accumulations of interest to June 30, 1904, \$38,012.74.

THE LIBRARY.

The expenditures for the library for the year ending June 30, 1904, exclusive of the salaries of the librarian and regular assistants were \$6,968.69. Of this sum there was paid for binding, \$1,162.29; for current supplies, \$411.41; for student assistants, \$1,060.36, and for books, \$4,334.63.

The number of books in the library June 30, 1903, was 48,223. The librarian's report filed herewith shows that there were added during the year 5,160 volumes, making the number accessioned June 30, 1904, 53,383. Of the number added 2,547 were purchased, 2,598 were donated and 15 received by way of exchange.

The more noteworthy gifts to the library were the library of the late Professor C. W. Mesloh, consisting of 355 volumes, which was generously donated by his widow; a collection of works on geology from the library of the late Doctor Edward Orton, which were presented by his son Professor Edward Orton, Jr.; a set of Appleton's Annual presented by Mr. George T. Spahr, of Columbus, Ohio; a complete set of the National Encyclopedia of American Biography, presented by General C. M. Spitzer, of Toledo, Ohio, and a complete set of the Druggist's Circular, presented by Mr. Henry J. Eady, of Elyria, Ohio.

Messrs. John and Louis Seibert, of Columbus, Ohio, have continued their annual gift of \$200.00 for the purchase of books for the Seibert collection of works on German History, making their total donations to this date \$1,000.00.

Quite a number of gifts of lesser note were also received. To these generous donors the Board of Trustees tenders the thanks of the University.

The very able report of the librarian presents the organization and work of the library in a very interesting and instructive manner, which is well worth the careful reading of those who are interested in modern library economy and administration.

LIBRARY OF THE STATE GEOLOGICAL SURVEY.

Through the efforts of Professor Edward Orton, Jr., an arrangement has been entered into whereby the library of the state geological survey is to be deposited in the university library for the free use of the faculty and students of the University.

Professor Orton took the initiative in this matter and is entitled to

the thanks of the University and the public for an arrangement which will be of great and lasting benefit to all concerned.

STUDENTS.

The number of students in attendance during the year just closed was as follows :

COLLEGE OF LAW.		
First Semester 139.		Second Semester 138.
Other Colleges.		
First Term 1,555.	Second Term 1,481.	Third Term 1,296.

The total number enrolled during the year as shown by the catalogue and president's report was 1,827.

The number in the several departments and classes and the courses of study pursued in each are set forth in the report of the President filed herewith.

FACULTY.

The instructional force of the University for the past year was made up as follows: Presidents 1; emeritus professors 4; professors 48; associate professors 19; assistant professors 20; lecturers 1; instructors 20; assistants 13; curators 1; high school visitors 1; fellows 13.

The library staff consists of the librarian, five assistants and one fellow.

The positions and compensation of members of the faculty and of other officers and employes of the University are given in the treasurer's report.

The changes in the faculty since the last annual report are given in the report of the president which accompanies this report.

DEGREES CONFERRED.

At the commencement in June, 1904, the following degrees were conferred:

BACHELOR OF SCIENCE IN AGRICULTURE.

Morris Oliver Bugby, Kingsville, Ohio; Clifford Christian Hatfield, Lebanon, Ohio; Alvin Scott Neale, Rock, Ohio; Modesto Quiroga, San Luis, Argentina; Frank D. Rubins, Kenton, Ohio.

BACHELOR OF SCIENCE IN HORTICULTURE AND FORESTRY.

James Herbert Beattie, Zanesville, Ohio; Frank D. Rubins, Kenton, Ohio.

BACHELOR OF SCIENCE IN DOMESTIC SCIENCE.

Annie Elizabeth Batterson, Grand View, Ohio; Ruth Amanda Hollister, Galion, Ohio; Adah Lucile Meyers, Columbus, Ohio; Francis Augusta Sullivan, New Carlisle, Ohio; Clara Margaret Tangeman, New Bremen, Ohio.

BACHELOR OF ARTS.

Mary Louise Arnold, Columbus, Ohio; David Clifton Bryant, Columbus, Ohio; Ralph William Buck, Cardington, Ohio; Sarah L. Burns, Columbus, Ohio; Robert Campbell, Toledo, Ohio; Caroline Martha Carmack, Columbus, Ohio; Jerry Riley Clements, Waverly, Ohio; Elmer William Coates, Pomeroy, Ohio; William Barney Cockley, Lexington, Ohio; Ray Durand Crout, Columbus, Ohio; Franklin Levi Davis, Columbus, Ohio; William Edgar Davis, Columbus, Ohio; Ernest Stewart Dillin, Coshocton, Ohio; Katherine Belle Early, Columbus, Ohio; Lenore Carrel Echols, Columbus, Ohio; Theresa Erb, Columbus, Ohio; Ralph Akin Foster, Columbus, Ohio; Frank Williams Gardner, London, Ohio; Melle Wilson Glass, Columbus, Ohio; Ira Garfield Gorham, Perrysville, Ohio; Ruth Matilda Grant, Columbus, Ohio; Helen Tuttle Greenwood, Columbus, Ohio; Anna M. Haesler, Springfield, Ohio; John Burnett Harshman, Xenia, Ohio; James McCleery Hengst, Lancaster, Ohio; Bertha Hite, Columbus, Ohio; John Hoffine, Columbus, Ohio; George Thomas Hoffman, Columbus, Ohio; William Gleason Holmes, Pittsburg, Pa.; Clifford Webster Jackson, Columbus, Ohio; Gertrude See Jackson, Columbus, Ohio; William Silver Jennings, Eaton, Ohio; Forest LeGrand Keiser, Bryan, Ohio; Blanch May Kern, Columbus, Ohio; John Dorsey Knox, Homeworth, Ohio; Charles C. Kochkeiser, Belleville, Ohio; Clarence Dewey Laylin, Columbus, Ohio; George Herbert Lewis, Leo, Ohio; Elsa Loechler, Columbus, Ohio; Homer Leslie Lewis, Columbus, Ohio; David Lorbach, Jr., Waverly, Ohio; James Bernard Malone, S. Charleston, Ohio; Robert Mathew Mark, Milo, Ohio; Roston Medbery, Columbus, Ohio; Maud A. McAlpine, Columbus, Ohio; Cloys Peter, McClelland, Rawson, Ohio; Roy Donaldson McClure, Columbus, Ohio; Mary Ann McKinley, Trinway, Ohio; Clarence Githens McPherson, Xenia, Ohio; Caroline Clemence Norton, Columbus, Ohio; Earl Hill Ortman, New Salem, Ohio; Alva Kendall, Overturf, Columbus, Ohio; Frank Coffman Parrett, Washington, C. H., Ohio; Paul Washington Pludemann, Columbus, Ohio; Edna Stuart Pratt, Columbus, Ohio; Rita Randall, Columbus, Ohio; Edith Athey Seymour, Columbus, Ohio; Nellie

Florence Sheets, Columbus, Ohio; Carl David Shoemaker, Napoleon, Ohio; Annie Elizabeth Smead, Columbus, Ohio; Homer F. Staley, Columbus, Ohio; Frank Macy Surface, Eaton, Ohio; Bessie Agnes Thompson, Columbus, Ohio; Laura Amelia Tressel, Columbus, Ohio; Alma Henrietta Wacker, Columbus, Ohio; Mary Isabelle Weber, N. Broadway, Ohio; John Clark Williams, Walnut Grove, Ohio; Carl Houseman Young, Columbus, Ohio.

BACHELOR OF SCIENCE.

Chauncey Brandt Baker, Washington, D. C.; James Harry Birnie, Marietta, Ohio; Ralph H. Demorest, Marysville, Ohio; Charles Searing Mead, Columbus, Ohio; Sigismund Ornstein, Sofia, Bulgaria; Phillips Thomas, Columbus, Ohio; Wilbert Babb Skimming, Wilmington, Ohio.

MASTER OF ARTS.

Ernestine Faye Ball, B. A., Columbus, Ohio; May Cummings, B. A., (Antioch College) Xenia, Ohio; Max Withrow Morse, B. Sc., Columbus, Ohio; Marion Wilson Mumma, B. Sc., Columbus, Ohio; Gilbert Lee Pennock, B. A., (Antioch College), Yellow Springs, Ohio; Charles Boyd Sayre, B. A., Columbus, Ohio; Edward Nathan Webb, B. Sc., (Pharmacy), Rome, Ohio.

DOCTOR OF PHILOSOPHY.

Melville Thurston Cook, M. A., (DePauw University.)

CIVIL ENGINEER IN ARCHITECTURE.

Charles St. John Chubb, Jr., Columbus, Ohio; Florence Elizabeth Hite, Columbus, Ohio.

CIVIL ENGINEER.

Benjamin Lonnie Bridgeman, Syracuse, Ohio; Benjamin Francis Dupuy, Ironton, Ohio; James Reed Marker, Versailles, Ohio; Guy Britton, Simons, Ohio; James Williamson Hunter, Zanesville, Ohio; Glenn Smith Burrell, New Lexington, Ohio; Ray Howard Rice, Portsmouth, Ohio; Joseph Horace Chubb, Columbus, Ohio; Lucian Shaw, W. Lafayette, Ohio.

ENGINEER OF MINES IN CERAMICS.

Thomas Walter Clark, Shawnee, Ohio; Leonard Burnside Coulter, Oxford, Ohio; Harold Phelps Humphreys, Elkland, Pa.; Leroy Himes Minton, Covington, Ohio.

ENGINEER OF MINES.

Oliver Perry Doty, Jr., Gervais, Ohio; Charles William Fuller, N. Madison, Ohio; Paul Hardy, Columbus, Ohio; Roy Edwin Howe, Lodi, Ohio; Hoyt Sherman McComb, Columbus, Ohio.

MECHANICAL ENGINEER IN ELECTRICAL ENGINEERING.

Howard Lindsley Beach, Glen Ridge, N. J.; Eric Wilson Benedict, Columbus, Ohio; Edgar Townsend Sill, Fostoria, Ohio; Herbert Lee Bostater, Ney, Ohio; Charles Franklin Kettering, Loudonville, Ohio; Carl Peter Leibold, Worthington, Ohio; Gaylor Malcolm Cameron, Jeromeville, Ohio; Theodore Doane Crocker, Cleveland, Ohio; John Scott Riddle, Barnesville, Ohio; Josiah Walker Gwynne, Wellsburg, W. Va.; William Arthur Schertz, Hamilton, Ohio; Warren Cornelius Kalb, Beavertown, Ohio; Leo Sylvester McGarey, Junction City, Ohio; William Oliver Taylor, Urbana, Ohio; Forest Bertram Pelton, Chargin Falls, Ohio; Ivan Elno Powell, Alliance, Ohio; Alton Leroy Stewart, Findlay, Ohio; Antonio Ribot y Colomer, San Juan, De Puerto Rico.

MECHANICAL ENGINEER.

Robert Clyde Alsdorf, Utica, Ohio; William Royal Chambers, Damascus, Ohio; Walter Alfred Dorsey, Newark, Ohio; Edouard Donald Royan, Houston, Ohio; Thomas Elliott Crooks, Van Wert, Ohio; Ray Morton Martin, Richwood, Ohio; Samuel Edwin Ward, Greenspring, Ohio; Edward Rall Feicht, Dayton, Ohio; Fred Singleton, Columbus, Ohio; Roy Brooke Smith, Columbus, Ohio; Burr Sells Waters, Columbus, Ohio; William Stewart Gould, Wyoming, Ohio; Thurman Welford Holloway, Zanesville, Ohio; Willard J. Hood, Cambridge, Ohio; Robert Meiklejohn, Columbus, Ohio.

BACHELOR OF SCIENCE IN CHEMISTRY.

Charles Edward Nesbitt, Columbus, Ohio; Grove Otterbein Spitler, Findlay, Ohio; Frederick Moses Stanton, Waynesville, Ohio; Edward Thomas, Navarre, Ohio.

BACHELOR OF LAWS.

William Ariel Blair, B. Sc., (Ohio Northern University), Hillsboro, Ohio; Thomas Jefferson Corkery, Toledo, Ohio; John Helvey Eagleson, B. A., Columbus, Ohio; Charles R. Frankham, B. A., (Otterbein University), Columbus, Ohio; Francis Harvey Game, Canal Winchester, Ohio; William McGirr, B. A., (Ohio Normal University), Columbus,

Ohio; Simeon Nash, B. A., Zanesville, Ohio; Orville Raudabaugh, B. A., (National Normal University), Celina, Ohio; Earnest T. Schneider, Dayton, Ohio; Alonzo Herbert Tuttle, A. B., A. M., (University of Michigan), Columbus, Ohio; William Burroughs Woods, B. Ph., Garrettsville, Ohio.

MASTER OF LAWS.

Frank Craig Amos, LL. B., Columbus, Ohio; Hanby R. Jones, B. Ph., (Otterbein University) LL. B., Columbus, Ohio; Edward C. Turner, LL. B., Columbus, Ohio.

BACHELOR OF SCIENCE IN PHARMACY.

Graham Burt Ackerman, Columbus, Ohio; Herbert Barr Henderson, Columbus, Ohio.

DOCTOR OF VETERINARY MEDICINE.

William Thomas Atherton, Carrollton, Ohio; Ernest Henry Baumann, Dundee Lake, N. J.; Howard Shannon Boggs, Kingston, Ohio; William Kemper Breckenridge, Watertown, Ohio; Alfred Davis Bullock, Milwaukee, Wisconsin; James Clyde Butcher, Wapakoneta, Ohio; Claude Henry Case, Hudson, Ohio; Charles Ray Dilts, Thornville, Ohio; Tomas S. Funes, Buenos Ayres, Argentine Republic; Luis Gonsebatt, Entre Rios, Argentine Republic; Robert Edwin Holm, Welshfield, Ohio; Eduardo B. Ibanez, Catamarca, Argentine Republic; Elmer Langdon, Sabina, Ohio; Horace Wade Laughlin, Belle Center, Ohio; Samuel Jacob Marquardt, Monroeville, Indiana; Victor Michael, Farmersville, Ohio; Robert Claude Musser, Buckland, Ohio; George W. Oden, Akron, Ohio; John Frank Planz, Akron, Ohio; Frederick William Porter, Augusta, Ga.; Wyatt Elgin Ralston, Findlay, Ohio; Howard Capwell Reynolds, Factorville, Pa.; Ernesto Sola, Salta, Argentine Republic; John Dudley Thrower, Mayhew, Miss.; Lynn J. Way, Youngstown, Ohio; Luther Dawson Whitwood, Canister, N. Y.

Also on the recommendation of the faculty, certificates were granted to the following members of the law class who had satisfactorily completed the course of studies in the college of law, but on account of deficient previous preparation were not entitled to a degree, said persons having passed the state examinaion for admission to the bar:

Wesley Richard Aldrich, Station B, Columbus, Ohio; Harry Daniel Baker, Newark, Ohio; Carl H. Bates, Nelsonville, Ohio; Charles Homer Durand, Toledo, Ohio; Frank Xavier Frebis, Ripley, Ohio; George Lewis Hoppes, Eher, Ohio; Floyd Ellis Kerr, Tippecanoe City, Ohio; Thomas

W. Lang, Findlay, Ohio; Frank E. Ruth, Columbus, Ohio; Roy C. Taylor, Washington C. H., Ohio; Herbert Spencer Thomas, Wheeling, W. Va.; Oscar Cecil Wagner, Kingston, Ohio; Benjamin Jacob Wolf, Gnadenhutten, Ohio; William J. Housel, Columbus, Ohio.

On the recommendation of the faculty certificates were granted to the following named persons, showing that they had completed the studies in the shorter courses named, to-wit:

SHORT COURSE IN AGRICULTURE.

Otto Clarence Alleshouse, New Bedford, Ohio; William T. Ather-ton, Carrollton, Ohio; Walton Ellis Groves, Egypt, Ohio; John Chester McNutt, N. Kingsville, Ohio; Brisben Otto Stingel, Coshocton, Ohio.

SHORT COURSE IN DAIRYING.

Saile Echegaray, Argentine Republic.

SHORT COURSE IN PHARMACY.

Hugh Gibson Beatty, Washington, C. H., Ohio; Albert Bolenbaugh, Canal Winchester, Ohio; Lee F. Chaney, Princetown, Ohio; Nelson C. Dysart, Reynoldsburg, Ohio; Columbus Johnson, Corning, W. Va.; Clarence Minor McClure, Hillsboro, Ohio; Mabel Elsie Smith, Columbus, Ohio; William M. Whitacre, Springfield, Ohio; Carl Winter, Youngs-town, Ohio; Otto Sauerbrun, Shelby, Ohio.

SHORT COURSE IN VETERINARY MEDICINE.

Peyton D. Atkins, Hallsville, Ohio; J. Eldoras Bard, Sodom, Ohio; Ivan Brobeck, LaRue, Ohio; Edgar Lee Burke, Bethel, Ohio; Charles Hoyt Herrold, Starr, Ohio; Carl Arthur Johnson, Akron, Ohio; George Arthur Lipp, Middletown, Ohio; Lee Maynard, Ross, Ohio; William H. Redhead, Glenville, Ohio; Henry Glen Shepard, Sulphur Grove, Ohio; Don I. Skidmore, W. Mansfield, Ohio; Samuel Elza Springer, Lake Fork, Ohio; William D. Worthington, Pleasant Corner, Ohio.

ESTIMATES.

Following are the estimates for the year ending June 30, 1905:

Bonds and interest.....	\$ 34,712 50
Repairs building and plants.....	10,000 00
Fuel and light	22,000 00
Printing and advertising	1,000 00
Roads and grounds	2,100 00

Water rates	3,200 00
Expenses of trustees	500 00
Chemical store room	8,000 00
Salaries	211,450 00
Department apparatus and supplies	11,180 00
Library books	2,500 00
Incidentals	8,000 00
Payroll bonds and interest	31,200 00
To complete physics building	66,173 33
New Chemical building	50,000 00
School of Mines building	50,000 00

PROGRESS OF THE UNIVERSITY.

In the report of the president, which is made a part hereof, the progress for the last year is set forth, showing that there has been an increase in the number of students and in the facilities for instruction.

A retrospective view covering the twenty-one years last past shows an increase of students every succeeding year but one, when the falling off was one student less than the preceding year. Happily the increase in the income for current expenses has more than kept pace with the increase in the number of students. The whole number of students in 1884 was 298. The number in 1904 was 1,827. The total income applicable to current expenses in 1884 was \$41,965.01. In 1904 it was \$302,012.75. These sums do not include the moneys received and expended for buildings and permanent improvements, which during the same period of twenty-one years reached the sum of \$978,530.71.

The growth has been steady and conservative and is the result of a wise conservative policy and a constant adherence to the letter and spirit of the land grant upon which the institution was founded. A continuance of such policy will make sure the continued growth of the university.

Respectfully submitted,

ALEXIS COPE, *Secretary.*

ANNUAL REPORT OF THE PRESIDENT TO THE BOARD OF TRUSTEES—JULY, 1904.

*To the Honorable PAUL JONES, President of the Board of Trustees of the
Ohio State University.*

DEAR SIR:—I have the honor to present, through you, to the Board of Trustees of the Ohio State University, the thirty-fourth annual report of the President of the University for the year ending June 30th, 1904.

THE FACULTY

During the year the faculty has had the unusual experience of losing four members by death.

Professor Frederick Converse Clark, Ph. D., head of the Department of Economics and Sociology, died on September 19th, 1903. Professor Clark was a graduate of the University of Michigan, class of 1887, and later received the Master's degree in 1888 and the Doctorate in Philosophy in 1891. He was for some time a student at Halle, Leipzig, and Berlin, and a teacher in the high school at Ann Arbor and at the Leland Stanford Jr. University. In June, 1895, he was called to the Ohio State University and later became head of the Department of Economics and Sociology, in which position he served until his death. Professor Clark was an enthusiastic student of economics and carried his enthusiasm into his work of teaching. His death coming at the bloom of mature manhood seemed most untimely and was sincerely mourned by a large circle of friends.

James Henry Collins died January 8th, 1904. Judge Collins had been identified with the College of Law since 1891. For more than thirty years he had been actively engaged in the practice, and during the latter years of his life his practice was almost entirely confined to the Federal courts. In this practice he was recognized as one of the most successful attorneys in Ohio. He served with great distinction for the Baltimore & Ohio Railroad Company as general counsel for a number of years, and was admirably equipped to teach the subject of Federal Practice in the College of Law.

Associate Professor Charles Walter Mesloh, died March 15th, 1904. Associate Professor Mesloh was a graduate of the Ohio State University in the class of 1889, and received the Master's degree in 1895. He had been a student in the University of Chicago and also in the University of Berlin. He served as Assistant in German from the time of his

graduation until 1895 and at the time of his death held the rank of Associate Professor. Professor Mesloh was a rare example of diligence and persistence in his work. He commanded the attention and confidence of his associates and of the teachers under whom he studied. His experience in the University gave promise of large usefulness.

William Forrest Hunter, Dean of the College of Law, died on June 15th, 1904. Judge Hunter was a graduate of the Law School of the University of Michigan and admitted to the bar in 1861. He went as a soldier in the late war, and began the practice of law in 1866 at his home in Woodsfield, Ohio. After a successful career as an attorney Judge Hunter came to Columbus, and in 1892 became identified with the College of Law, in which position he served until his death. Judge Hunter was a high grade teacher and in his office as Dean was much beloved and respected by all the students of the College of Law. Few men devote themselves with greater fidelity to the details of the office or to the interests of the students. He enjoyed the confidence and esteem of all his associates in the University and his death is a great loss to the College of Law. He served with distinction and honored the institution to which he gave unreservedly his best energy.

During the year Professor Samuel Carroll Derby has been absent on leave. Mention is made of this fact here for the reason that it is worthy of attention, and ought to establish a precedent which might well be followed every year. The men who have served a series of years in the University have earned the right for an occasional opportunity to spend some time in study and in examining the work of other institutions while in active operation. Some objection has arisen in the minds of public officials with reference to the payment of salaries to men on leave of absence on the ground that the State cannot pay for men not actively engaged in the service to which they have been elected. In my judgment this technical objection is a mere technicality. As a matter of fact men who have served a series of years in an institution of learning have more than earned such recognition and I express the hope that the precedent of the current year may be frequently followed in the years that are to come. Such a custom would be of decided benefit to the State and to the University.

The University during the current year has lost through resignation a number of the teaching force. These resignations usually occur for the reason that teachers are given better salaries or larger opportunities elsewhere. It is to be remarked also that first class teachers are in demand and that the younger portion of the faculty is liable to receive promotion at the hands of other institutions. This is not altogether an evil, but it creates more or less embarrassment and in some instances places are made vacant which cannot be readily and efficiently filled. During the year a few changes in title have oc-

curred and some men have been advanced in rank. The details of this can be seen by reference to the statistical tables accompanying this report. Some additions have been made to the teaching force in order to meet the growing demand occasioned by the steadily increasing attendance.

ENROLLMENT.

The enrollment for the current year has reached the total of 1,827 as against a total of 1,735 for the year preceding. A general summary of attendance will be found appended to this report. It is proper to add in this connection, that every one of the six colleges of the University shows some increase in attendance. This healthy condition emphasizes the fact that the University is serving in all the lines of work now organized a real demand. The apparent exception to the statement as to increase is explained by the fact that admissions to the Graduate Department have been more carefully guarded. It is interesting to note again that the current year has shown an enrollment from every county in the State. The number of students will vary from year to year from the counties, but it is interesting to observe that the counties having the largest population are rapidly and steadily increasing in the numbers sent to the University. Some of the states west of Ohio are beginning to send students to the University, doubtless through the influence of former students, in some instances the students being the sons and daughters of alumni. More interesting than this fact is the statement that our graduates are finding their way into every portion of the State. Those having technical education are apt to find location in the cities where the demand for such service is constantly increasing. Outside of Ohio the largest cities in the country are already receiving a considerable number of the alumni.

The steady and healthful growth in numbers at the University for the past ten years indicates that a larger usefulness awaits the University, and that its greatest problem will be an adequate equipment. The University has outgrown the expectation of its most enthusiastic friends and must rely upon the quality of its work to commend it to the favorable consideration of the State.

The general summary of attendance for the year is as follows:

College of Agriculture and Domestic Science—			
Graduate students.....	2		
Undergraduates.....	253		
			255
College of Arts, Philosophy, and Science—			
Graduate students.....	25		
Undergraduates.....	496		
			521
College of Engineering—			
Undergraduates.....	744	744	
College of Law.....	171	171	

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College of Pharmacy.....	47	47
College of Veterinary Medicine.....	91	91
Lake Laboratory, summer of 1903.....	23	23
Civil Engineering, summer 1903.....	9	9
Shop work, summer 1903.....	72	72
Total.....		1,933
Names counted twice.....		106
Net Total.....		1,827

DEGREES.

At the Commencement held on June 22, 1904, the University granted a total of one hundred and ninety-four degrees. These were distributed as follows:

College of Agriculture and Domestic Science.....	12
College of Arts, Philosophy and Science.....	83
College of Engineering.....	57
College of Law.....	14
College of Pharmacy.....	2
College of Veterinary Medicine.....	26
Total.....	194

In addition to the degrees granted, the College of Law granted certificates to sixteen persons, the College of Pharmacy to eleven persons and the College of Veterinary Medicine to twelve persons who had completed the course of study but were without the educational requirements for the degree. The certificates in these three colleges are professional in their character. Certificates were also granted for the short courses covering a period of two years in the College of Agriculture and Domestic Science to six persons and in the College of Engineering to six persons.

THE UNIVERSITY AND THE HIGH SCHOOLS.

During the year the work of visiting the high schools has been continued until practically all of the first grade high schools of the State have been visited. Hereafter students will not be accepted for entrance to the University unless they are graduates of accredited schools, or pass satisfactory entrance examinations.

The University has made the first serious attempt ever made in Ohio to visit the entire State. The work has been arduous and not without its difficult problems. There is the tendency on the part of university faculties to insist upon the specific requirements they name as entrance requirements. It is possible that in some instances these requirements have been unnecessarily technical. On the other hand there is a manifest tendency in the high schools to assume that the quality of their work is always standard. The work of visitation

is apt to bring these two theories into conflict and much patience is needed in order to bring about a satisfactory adjustment. The results of visitation have in the main been very satisfactory and are a comment upon the efficiency of our high schools. Nearly everywhere in the State is manifested a keen interest in making the high schools as efficient as the communities can afford. In some communities a lack of interest is manifested, but fortunately these are the exceptions and the condition is temporary. In cases where schools have not been found entirely satisfactory there has been manifested a willingness to improve the grade promptly. The University desires to lend its aid for the betterment of education wherever possible. The closer relation of the University and the high schools will, it is believed, stimulate many students to continue their education beyond the high school. It is not the thought of the University that the work of visitation shall be carried on with a view to increasing the number of students at the State University. That number is already quite up to the facilities afforded. There is a greater work for the University than the mere securing of students. It is hoped, however, that the cause of higher education may not be divorced from the high schools of the State, and that the University may serve a good purpose in emphasizing the continuity of educational work.

SUMMER SCHOOL WORK.

For some years the University has maintained the Lake Laboratory at Cedar Point near Sandusky, Ohio. A suitable building has now been erected and unusual facilities are afforded for the study of science during the summer. The departments of Biology and Botany are the most directly interested in this work. The enrollment for recent years shows that advanced students and teachers of biology and botany in the high schools avail themselves of these opportunities. The work at first was regarded as an experiment, but has so firmly established itself that a permanent usefulness is assured.

The University, as announced in the catalogues, requires four weeks of summer work from students in Civil Engineering and from all engineering students in the shops. The work in Civil Engineering is usually done under the supervision of the Professor of Civil Engineering at some point selected during the year. The work in the shops at the University is carried on seven hours a day for the entire period of four weeks including Saturdays. This gives to each student a valuable supplement to the shopwork done during the year. In addition to the work done by the University some of the teachers have offered courses at the University for the summer term in special departments. The increasing demand for work of this kind raises the question whether the University ought not to carry a summer

term. The chief objection to such a proposition arises from the lack of funds at the command of the University. It is hoped that in the future some such provision may be made, and that adequate funds will be provided.

THE PROGRESS OF THE YEAR.

The year just closed has been in many ways one of the most remarkable in the history of the University. The Legislature was most cordial in its support and provided the largest amount of money ever given to the University.

On the evening of February 19th, the Chemical Building was burned entailing a loss of approximately \$100,000.00. The Legislature promptly provided a fund of \$15,000.00 with which to make temporary provision for such laboratories as could be promptly established in the several buildings on the campus. Later an appropriation of \$100,000.00 was made to restore the building. The burning of the Chemical Building forced upon the University the consideration of the needs, in fact a building, for the School of Mines. That need was presented and \$85,000.00 was appropriated by the Legislature for a building for the School of Mines in which will be located the departments of Metallurgy and Mineralogy, of Mine Engineering, and of Ceramics. The sum total of the appropriations by the Legislature amounted in round numbers to \$925,000.00. Seventy-five thousand dollars of this was designated for the College of Agriculture and Domestic Science. The Governor in the exercise of his veto power cut out the item for the College of Agriculture and Domestic Science. This was a serious disappointment to the interests involved, and will delay for two years longer some very much needed improvements. During the year the erection of a building for the Department of Physics has been in progress, but cannot be completed in time for use the next academic year.

Since the last annual report was submitted the building for the College of Veterinary Medicine has been completed at a cost of practically \$35,000.00, and has proved a very satisfactory building for the use of the College of Veterinary Medicine. Brown Hall for the departments of Architecture and Drawing and of Civil Engineering was completed in time to be used September, 1903, and has abundantly justified the expectations of the departments. The building is commodious and well adapted to the purposes for which it was designed. Except for the temporary inconvenience caused by the destruction of Chemical Hall, the University is now better equipped from the standpoint of buildings and facilities than it has ever been. With the new buildings immediately in prospect this condition will be still further improved. The progress of the University for the

year, therefore, may be said to have been along the following lines:

First, increased facilities in the way of buildings; second, increased revenue; third, the increase of students; fourth, the general increase in the efficiency of the work done within the departments.

The Ohio State University has now reached such proportions that it is the greatest enterprise in which the State of Ohio is concerned. The enterprise cannot grow smaller as the years go by. The importance of the work in which it is engaged will reveal itself to those who are familiar with what is accomplished. The aim of those in charge is to operate the trust in such manner as to bring through the results reached a sufficient justification for the confidence reposed in the institution.

CONCLUSION.

In closing the report it is proper to state that the faculty and students have worked together harmoniously; that the spirit of the institution is commendable; and that the constant aim of the University will be to bring to the State the highest possible service.

The President desires to make public recognition of the uniform courtesy on the part of Trustees, Faculty, and students, and of the very generous support given him by all associated with the University.

The report of the Librarian, the several tables of statistics and the itemized report as required by law are herewith submitted and made a part of this report.

Respectfully submitted,

W. O. THOMPSON,

President.

TABLE I.—THE WORK OF INSTRUCTORS, 1903-1904.

Course Subjects.	Department Number.			Total Hours per Week.						Number of Students.		
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
Agriculture.												
Farm Equipment	11			3			6			28		
Advanced Soils	19			12			6			58		
Breeds of Live Stock	28	29		6			6	6		54		
Milk Inspection	18			1						33		
Elements of Dairying	22		22			12	9	6	6	11		4
Advanced Dairying	34		1				1			5		
Cheese Making	35		25			2	6		6	3		4
Elementary Soils		12		3				9		47		
Advanced Agronomy		20						6		8		
Feeding, Hygiene and Management		32		4						17		
Feeds and Feeding (Sp. Dairy)		43		3						11		
Butter and Cheese Making (Sp. Dairy)		6&7		12				12		33		
Butter Making		15						6		5		
Farm Crops			13			3			9			29
Rural Economics			16			4						11
Principles of Breeding			30			6			6			44
Agricultural Chemistry.												
Elementary Chemistry	1	8	9	3	3	3	6	6	6	56	40	13
Elementary Chemistry	10	11	12	3	3	3	6	6	6	67	60	62
Quantitative Analysis	4	4	4	1	1	1	8	9	8	44	41	34
Graduate Work	14	14					10	10		3	1	
Dairy Chemistry		7			12			4			34	
Dairy Chemistry Advanced		7			12			4			3	
American History.												
Political History of United States	1	1	1	9	9	9				93	89	78
Formation of United States	2	2	2	3	3	3				9	7	7
American Diplomacy, Foreign Relations and Expansion	6	6	6	3	3	3				27	29	25
Historical Material and Its Use	8	8		1	1					6	5	
Topical Research in American History			9			1						4
Seminary	10	10	10	2	2	2				4	4	4
Teaching of American History	11	11		1	1					7	7	
Advanced Research			13			1						1
Political Science.												
Modern Political Institutions	1	1	1	3	3	3				26	26	25
International Law	4	4		2	2	2				18	16	
History of Treaties			5			2						11
Government of Dependencies	6			2						21		
Colonial Institutions		7			2						18	
Municipal Government			8			2						26
Origin of United States Constitution	9	9	9	2	2	2				1	1	1
Comparative Politics	12	12	12	12	12	12				1	1	1
Administrative Law	13	13	13							33	33	33
Constitutional Law				3	3	3				38	38	
Anatomy and Physiology.												
Physiology and Anatomy	1	1	1	6	6	6	1	1	1	97	93	98
Physiology and Anatomy	2			3						15		
Histology and Histo.-Chem.	4	4	4	3	3	3	9	9	9	29	28	24
Physiological Laboratory	9	9	9	1	1	1	6	6	6	3	3	3

TABLE No. I—Continued.

Course Subjects.	Department Number.			Total Hours per Week.									Number of Students.		
	First Term.	Second Term.	Third Term.	Lectures.			Laboratory.			First Term.	Second Term.	Third Term.			
				First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.						
Anatomy and Physiology—Concluded.															
Physiological Laboratory.....	11	11	11	1	1	1	9	9	9	3	3	5			
Special.....				1	1	1	10	10	10	3	3	5			
Physiology.....	14	14	14	3	3	3				3	3	5			
Physiol. Chem. (D.E.).....			3						4			3			
Microscopy and Urinary Analysis.....			5			1			2			17			
Architecture and Drawing.															
Lettering.....	2	32	32	1	6	8	5	6	16	40	266	237			
Technical Drawing.....	5		16	1		1	5	5	5	51	23	20			
Mechanical Drawing.....	20	15	15	1	1/2		2	2	3	13	12	12			
Projection Drawing.....	33	38		7			28	4		160	36				
Pen Drawing.....	14	14	14		1			4	4	21	9	14			
Oil and Water Color Painting.....	17	18	19				10	14	16	37	46	44			
Freehand Drawing.....	24	25	26				4	4	2	33	31	18			
Freehand Drawing.....		27	27					4	4		14	3			
Freehand Drawing.....		27	28				66	30	2	323	273	244			
Freehand Drawing.....		29	29				4	4	4	12	14	10			
Technical Drawing.....	21	22	23	1	1	1/2	3	3	4	5	5	3			
Photography.....	7		7				4		8	21		48			
Descriptive Geometry.....		36			4			12			58				
Descriptive Geometry.....		34			8			8			103				
Architectural Design.....	Spl	Spl					4	8		2	2				
Decoration and Ornament.....	5		2				2								
History of Architecture.....	9	10	11	3	3	3				12	13	12			
Architectural Detail Drawing.....	12	13	14				4	4	4	3	3	3			
Architectural Designing.....	15	16	17	1	1	1	6	2	6	2	2	1			
Architectural Designing.....	18	21	19	1	1/2		6		8	3	3	3			
Architecture, Specifications.....		4			1			2			3				
Architecture, Heating, Ventilation, etc.....		7			3			4			3				
Mechanical Drawing.....	10		1					5			79				
Clay Modeling.....	40	41						4	4		3	4			
Estimates and Superintendence.....		6			2							2			
Thesis.....		20							10			3			
Mechanical Drawing.....		11			1				8			7			
Shades, Shadows and Perspective.....		35			8				16			136			
Shades, Shadows and Perspective.....		39			2				6			4			
Draughting and Blue-printing.....		39			1				5			29			
Special Drawing.....		Spl			2				4						
Astronomy.															
Astronomy.....	1	1	1	2	2	2				7	6	6			
Astronomy.....	4	5	6	1	2	1	10	7	8	16	15	15			
Astronomy.....	7	7					10	10	10	2	2	2			
Astronomy.....			3			2						40			
Bacteriology.															
Bacteriology.....	1	1		2	1			2		20	21				
Bacteriology.....		2		1	1			2			34				
Bacteriology.....	5	5	5	5	1	1		6	6	20	16	10			
Bacteriology.....	6						10			4					
Bacteriology.....		6	6					10	10		3	2			
Spl. Bact. in place of Vet. Med. 36.....				3						41					
		4		1				4			12				
		3										4			
		4		2					2			21			
Botany.															
Systematic and Physiological Botany.....	3			2			2			1					
Dendrology.....	9			1			1			2					
Laboratory-Economic Botany.....	11	11	11				5	5	5	2	2	2			
Forest Botany.....	17			2			2			2					
Ecology.....	21			2			1			19					
Laboratory and Field Work.....	24	24					3	3		1	2				

TABLE No. I—Continued.

Course Subjects.	Department Number.			Total Hours per Week.						Number of Students.		
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
Botany—Concluded.												
Laboratory-Histology and Physiology ..	25	25	25	..	..	..	5	5	5	2	2	2
Laboratory-Systematic Botany	27	27	27	..	..	..	5	5	5	2	2	2
Minor Investigations	22	22	22	..	..	..	5	5	5	1	1	1
Special Work .....	..	..	..	..	..	..	5	5	5	..	..	..
Medical Botany .....	..	4	..	..	..	..	12	12	..	2	..	..
Dendrology	10	..	..	..	..	..	..	..	..	..	..	..
Histology of Wood	18	..	..	1	..	..	3	..	..	1	..	..
Morphology and Physiology .....	..	..	..	..	..	..	1	..	..	18	..	..
Research Morphology and Physiology ..	..	..	..	..	..	..	5	5	..	1	..	1
Systematic Botany .....	..	..	..	..	..	..	..	..	..	..	..	19
Elementary Botany .....	..	1	..	..	..	..	..	1	..	..	..	51
Forest Ecology and Pathology.....	..	19	..	..	..	..	..	..	..	..	..	1
Civil Engineering.												
Land Surveying	1	..	60	..	..	..	36	..	..	53	..	..
Topographic Surveying	3	..	12	..	..	..	96	..	..	22	..	..
Bridge Designing	8	..	50	..	..	..	30	..	..	11	..	..
Masonry Construction	15	..	60	..	..	..	..	..	..	..	16	..
Highway Construction	16	..	60	..	..	..	..	..	..	26	..	..
Railway Location .....	..	17	60	..	..	..	..	..	..	..	9	..
Cement Testing .....	..	14	..	..	..	..	48	..	..	18	..	..
Advanced Bridge Work .....	..	25	60	..	..	..	..	..	..	..	3	..
Steel Skeleton Construction .....	..	24	..	36	..	..	..	..	..	..	2	..
Stereotomy .....	..	6	..	24	..	..	48	..	..	26	..	..
Topographic Drawing .....	..	4	..	6	..	..	94	..	..	48	..	..
Drawing of Eng. Structures .....	..	24	..	6	..	..	108	..	..	26	..	..
Timber and Masonry .....	..	27	..	20	..	..	..	..	..	29	..	..
Bridge Stresses .....	..	..	7	..	..	50	..	..	..	..	24	..
Roof Trusses .....	..	19	..	..	40	..	30	30	..	..	43	..
Railroad Surveying .....	..	2	..	..	50	..	..	30	..	..	41	..
Sanitary Engineering .....	..	10	..	..	35	..	..	..	..	..	16	..
Water-supply Engineering .....	..	18	..	..	35	..	..	..	..	..	9	..
Plane Surveying .....	..	21	..	..	21	..	..	21	..	..	30	..
Thesis-work .....	..	..	..	..	..	..	60	..	..	10	..	..
Summer Camp 1903 .....	..	22 & 23	..	..	..	..	240	..	..	9	..	..
Extra Class in L. Surv. .....	..	1	..	..	2	..	..	..	..	9	..	..
Chemistry.												
Elementary Chemistry	1	1	1	2	2	..	3	3	..	90	80	70
Elementary Chemistry	3	3	..	2	2	..	6	6	..	27	24	..
Elementary Chemistry	7	7	..	2	2	..	6	6	..	317	250	..
Qualitative Analysis	2	2	..	1	1	..	6-8	6-8	..	10	9	..
Quantitative Analysis	20	20	20	1	1	1	6-8	6-8	6-8	20	23	18
Stoichiometry	31	..	..	2	..	..	..	..	..	20	..	..
Advanced General Chemistry	21	21	21	2	2	..	..	..	..	34	32	30
Analytical Chemistry	33	33	33	..	..	10	6-8	10	..	2	2	1
Organic Chemistry	34	34	..	..	..	6	6	..	..	12	10	..
Organic Chemistry	8	9	9	2	2	6	6	6	19	18	14	..
Industrial Chemistry	32	32	..	2	..	4	4	..	..	3	3	..
Advanced Chemistry	27	27	27	..	..	10	10	10	2	2	2	..
Rare Elements	35	..	..	3	..	..	..	..	..	8	..	..
Chemical Seminary	26	26	26	1	1	1	..	..	..	5	5	5
Research Work	29	29	29	..	..	10	10	10	2	4	3	..
Physical Chemistry	30-a	30-a	..	3	3	..	..	..	..	7	7	..
Physical Chemistry	30-b	30-b	..	..	..	6	..	..	..	2	..	..
Sanitary Analysis .....	..	15	..	..	2	..	..	4	..	..	7	..
Toxicology .....	..	11	..	4	..	..	..	..	..	..	16	..
Inorganic Preparations .....	..	17	..	1	..	..	6-8	..	..	..	7	..
Clay Working and Ceramics.												
Ceramics Chemistry	1	2	3	1	1	1	8	8	8	18	16	15
Lectures on Clay Manufacture.....	4	5	6	5	5	10	..	..	..	13	13	13
Laboratory Work in Ceramics	9	10	11	1	1	1	8	8	8	7	7	7
N. B. M. A. Scholarship .....	..	..	..	..	..	..	15	15	15	1	1	1

TABLE No. I—Continued.

Course Subjects.	Department Number.			Total Hours per Week.						Number of Students.		
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
Clay Working and Ceramics—Concluded.												
Ceramic Chemistry		7			1			8				
Ceramic Construction		17						10				
Cement		12			5						2	
Ceramics			15						5			5
Ceramics			16									
Ceramics			18					10				3
Domestic Science.												
Domestic Science	1						6			12		
Domestic Science	4						6					
Thesis Work												
Domestic Art	(7)			1			6					
Domestic Science		2						6				
Domestic Science		11									10	
Thesis Work							3				5	
Domestic Art		5	6								5	
Domestic Art		8	9		1	1	6	6	6		14	15
Domestic Science			3					6	6	6	5	10
Domestic Science, Theory and Practice			12						6			7
Household Economics			10						6			9
Thesis Work												5
Economics and Sociology.												
Elements of Political Economy	1	1	1	3	3	3				108	88	
History of Industrial Society	2			3						36		
Industrial and Financial History of U. S.		3			3						44	
Transportation			7									46
Practical Problems	5	6	7							38	32	34
Public Finance and Taxation	8	8								21	29	
Money, Credit and Banking			9									32
Sociology	11	11		3	3					30	28	
Primitive Society			22		3							21
Seminary in Economics	15	15	15							4	7	6
Seminary in Sociology	177	177	177							7	7	6
Thesis Work	16	26	26							5	4	3
Education.												
Educational Psychology	1	1	1	3	3	3				16	15	17
Child Study	4	4	4							7	7	10
Modern Educational Systems	6	6	6		1	1				1	1	1
Secondary Education	7	7	7							6	5	3
Educational Classics	8	8	8		1	1				1	1	1
Seminar	9									1		
Electrical Engineering.												
Electrical Engineering	6	6		2	2					24	25	
Electrical Engineering	7	7					12	16				
Alternating Current Mach.	10	10		3	3					12	13	
Advanced Dynamo Laboratory	11	11					12	12	12			26
Direct Current Dynamos		8			4							
Direct Current Dynamos			9						16			27
Transmission and Distribution		12			2						9	
Electrical Design		14	14					8	8			26
Applications of Electricity			13			5						20
English Literature.												
An Introduction to Eng. Lit.	1	1	1	6	6	6				28	25	7
Spencer to Milton	2			2								
Prose from Burke to Victorian Age	5											
English Bible—New Testament	9	9	9	1	1	1				13	14	24
Drama—Shakespeare	10	10	10	3	3	3				13	13	13
The Modern Novel	11	11		3						13	14	
Chaucer	13			3								

TABLE No. I—Continued.

Course Subjects.	Department Number.			Total Hours per Week.						Number of Students.		
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
English Literature—Concluded.												
Masterpieces—Undergraduate	17	17	17	3	3	3				21	23	26
Victorian Literature	18	18	18							5		
Current Literature	19	19	19							6	9	4
Literary Problems Graduate	16	16	16							4	4	4
Masterpieces Graduate	20	20	20	1	1	1				3	3	3
Development of Types Graduate	22	22	22	1	1	1				3	3	4
Shakespeare Graduate	24	24	24	1	1	1				3	3	4
Thesis Graduate												
Dryden to Pope		3										
Poetry from Burns to Victorian Age		6	6		3	3						6
Milton		14			3						9	
Age of Johnson			4									15
American Authors			12		3	3						35
Modern Plays			15			3						9
European History.												
Early Middle Ages	1			3						51		
Renaissance		2			3						44	
Modern Europe			3			3						49
English Const. History	4			3	3	3				7	5	5
Protestant Reformation	7			3						8		
History of European Colonies	10			3	3					3		
Narrative Hist. of England	14			3	3	3				21	23	21
Medieval Civilization	18			3	3	3				1		1
Historical Method	20										1	
Special Topics in Modern European Hist.	21									2		2
French Revolutionary and Napoleonic Eras		8			3						10	
Europe since 1815			9			3						12
Geology.												
Inorganic Geology	11			3			5			23		
Physiography	17	17	17	3	3	3				45	48	46
Petrography	19						4			1		
Special Geology				1	2	2					2	2
General Geology	2			4			12			58		
Paleontology	14	14	14	1			6	9	6	2	4	2
Advanced Historical Geology	16	16					3	3	3	1		
Applied Geology		5			3			1			20	
Economic Geology		6			3						49	
Petrography		7			1						13	
Historical Geology		12			3			1			16	
Elementary Geology		4			3						4	
Physiography			1			5						32
Field Geology			13			1			14			14
Germanic Languages and Literature.												
German, Elementary	1			24	24	24				260	206	169
Science Reading	2			8	8	8				47	37	35
Intermediate	4			8	8	8				73	67	61
Modern Prose	9			3	3	3				32	29	30
Faust	11									16	16	15
Colloquial Exercises	12									16	15	7
Deutscher Aufsatz	13			1	1	1				10	9	9
Gothic	14									3		
Phonetics	21			1						3		
Seminary, A.	23									5		
Old High German	15										3	
Deutsche Kulturgeschichte	22			1	1						4	5
Middle High German	16				3							2
Greek.												
Xenophon's Memorabilia	7			4						5		
Herodotus		8			4	4					6	
Homer's Odyssey			9			4						5

TABLE No. I—Continued.

Course Subjects.	Department Number.	Total Hours per Week.									Number of Students.		
		Lectures.			Laboratory.								
		First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
Greek—Concluded.													
Lysias's Orations	10				3							10	
Plato: Apology		11			3							11	
Homer's Iliad			12			3							10
Greek—Philosophy—Xen. Memorabilia	25				2							1	
Plato—Laches and Lysis		26				2						1	
New Testament Greek			27			2							3
Epic Poetry	19				2							3	
Aristophanes: Birds		20				2						4	
Lucian's Timon: Dion Chrysostom			21			2							3
Ancient Art	12				2							14	
Ancient Art		23				2						10	
Private Life of the Greeks			24			2							11
Thucydides Book VII	13				3							2	
Demosthenes		14				3						3	
Greek Lyric Poets			15			3							
Elementary Greek	1				4							10	
Elementary Greek		1				4						10	
Elementary Greek				1			4						7
Industrial Arts.													
Carpentry and Pattern-making	1	1	1				6	6	6		1	3	38
Forging	2	2	2				6	6	6		2	21	12
Foundry Work	3						4	6	6		51		
Foundry Work	3						6	6	6		1		
Chipping and Filing	4	4	4				6	6	6	6	44	32	23
Carpentry and Pattern-making	7						4	6	6		50		
Carpentry and Pattern-making	7	7	7				6	6	6	6	50	31	38
Carpentry—Cabinet-work	8	8	8										
Advanced Pattern-making	9	9	9				6	6	6	12	36	4	
Forging	11	11	11					4	6				
Advanced Forging			12				6	6	6	51	42	38	
Machine Work	13	13	13				6	6	6	8	32	30	
Machine Work	14		14				6	6	6	40		12	
Advanced Machine Work	15	15					8	8		1	20		
Tools and Machines	1	1	1	3	3	3				9	5	4	
Designing	2	2							6	6			
Workshop Appliances			5		3								18
Machine Design			7						6				22
Machine Drawing	8						6			6			
Shopwork.													
Carpentry and Pattern-making	7						36				38		
Forging	11						36				36		
Chipping and Filing	4						36				31		
Machine Work	13						36				9		
Machine Work	14						48				11		
Advanced Machine Work	15						48				8		
Horticulture and Forestry.													
Elements of Horticulture	1		3	6		6	6		6	6	63		37
Vegetable Forcing		2			3			3			16		
Olericulture			14			3				3			13
Varieties of Cultivated Fruits	5			3			3				8		
Principles of Fruit Culture (Hort.)	6			6			3				9		
Elements of Floriculture	8			2			3				9		
Window Gardening (Horticulture)		9			2			2			8		
Ornamental Gardening			10		2				2				8
Elements of Forestry	11			2		3				6			
Forest Technology (Horticulture)	12			3			3				4		
Forest Economics		15			3			3					5
Thesis			1	1		2	2	3	3	3	3	3	3
Plant Variations (Horticulture)	17			2				2			5		
Landscape Gardening		13			1								

TABLE No. I—Continued.

Course Subjects.	Department Number.			Total Hours per Week.						Number of Students.		
				Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
Mechanical Engineering.												
Mechanism		3	3		2sc. 5ea				4		60	13
Machine Design	18	18	19	5	5				10	17	17	17
Thesis	21	21	21						10	17	17	16
Materials of Construction	23			2			4			3		
Steam Machinery		26			1						33	
Hydraulic Machinery			31			3						17
Mech. Eng. of Power Plants			32			5ea						59
Steam Engines and Boilers	33									41		
Thermodynamics		34			5							
Experimental Engineering	12				2sc.		4ea			27		
Experimental Engineering	27	14	15				10	8	6	20	20	18
Experimental Engineering		17	25		1	1		4	8		12	12
Experimental Engineering			36		2				6			8
Experimental Engineering	29	30	28				2sc. 4ea	4		21	21	30
Steam Turbines			Spl									6
Metallurgy and Mineralogy.												
Metallurgy, ore dressing	4	4		5	5					49	43	
Metallurgy	8									8		
Metallurgical Laboratory	5	5	5	2	2	1	21	21	21	26	21	25
Assaying		6			1			14				
Determinative Mineralogy			3			1			10			15
General Mineralogy			2			3						52
Thesis and Similar Work	7									7		
Thesis and Similar Work									4			5
Mineral Chemistry			9			5						9
Military Science and Tactics.												
Practical Military Work							4	1	4	975	638	521
Mine Engineering.												
Mine Engineering	5	5	5	5	5	5				4	4	6
Mathematics	2	2	2	5	5	5				44	32	28
Mine Engineering	4	7		4						18	16	
Mine Engineering	1	2	3	5	5	4			2	6	4	4
Mine Engineering (special)										1	1	
Mine Engineering		6			1			6			1	
Metallurgy		7			1						7	
Mine Engineering			6			2			6			6
Thesis						1			10			5
Pharmacy.												
Pharmacy	6	7	8	6	6	2	2	10	10	18	13	10
Pharmacy	9	10	11	2	2	2		10	10	20	18	16
Pharmacy (Materia Medica)	12	13	14	3	3	3				30	18	17
Pharmacy	15	16	17	1	1	1	10	10	10	4	4	3
Pharmacy (Pharmacognosy)		18	19		4	1		16	8		20	20
Pharmacy (Quiz)				2	2	2				33	33	30
Philosophy.												
Psychology: Logic	18	18	19	3	3	3				26	24	22
Logic: Psychology	19	18	18	3	3	3				15	15	11
History Anc., Medieval and Mod. Philos.	22	21	21	3	3	3				3	5	7
Conspectus of Philosophy	23	24	25	3	3	3				5	6	4
Advanced Psychology	26	26	26	2	2	2				5	5	4
Experimental Psychology	29	29		1			5	12		6	6	

TABLE No. I—Continued.

Course Subjects.	Department Numbers			Total Hours per Week.									Number of Students.		
				Lectures.			Laboratory.								
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.			
Philosophy—Concluded.															
Philosophical Seminary	41	41	41								2	1	1		
Scientific Method	43				12						1				
Advanced Ethics	44	44	44		12						6	5	4		
Esthetics	45	45	45			12					6	6	6		
Abnormal Psychology		46	46		12						1	1			
Special					12										
Psychological Seminary		33	33			12						1	1		
Ethics			20			24							8		
Physical Education for Men.															
Examinations and Measurements											500	750	250		
Physical Education for Women.															
Gymnasium	1	1	1	8	8	8	6	6	6	6	79	64	55		
Gymnasium	2	2	2	8	8	8	6	6	6	6	39	38	33		
Physics.															
Elementary Physics	1	1		10	10						116	90			
Mechanics and Heat	2	2		3	3						190	161	136		
Physics Problems	3	3			2						62	48	43		
Electricity and Magnetism	4			3							37				
General Physics	11	11	11	1	1	1	8	8	8	8	33	32	25		
Physical Laboratory	5		5				8	8	8	8	2	28	28		
Physical Laboratory	6	6					9	9	9	32	32	32	30		
Physical Laboratory		7	7					8	8	6		37			
Physical Laboratory	12	12					8	8	8	3	2	2	2		
Theoretical Physics	14	14		3	3	2				12	1	1	1		
Advanced Physical Laboratory			15							6		1	1		
Physical Laboratory			9							6			2		
Rhetoric and English Language.															
Paragraph Writing	1	1	1	28	28	28	31	31	27	541	396	390			
Expository Writing	2			8			8			194					
Brief-making and Argumentation		3	3		8			8			194	176			
Short Story Writing	4			3			3			15					
Poetics		6	6		3	3		3	3		16	15			
Advanced Composition	10	10	10	1	1	1	1	1	1	23	26	24			
Problems in Rhetoric and Criticism	12	12	12	2	2	2				8	8	6			
The Teaching of English	13	13	13	1	1	1				9	8	9			
History of English	15	15	15	2	2	2				5	5	5			
Old English Prose and Poetry	16	16	16	2	2	2				5	5	5			
Middle English Prose and Poetry	18	18	18	2	2	2				4	4	4			
Graduate Work	20	20	20	4	4	4				6					
Romance Languages.															
Elementary French	1	1	1	20	20	20				189	152	137			
Modern French Literature	2	2	2	8	8	8				85	78	73			
Science Reading	3	3	3	4	4	4				9	6	4			
Advanced Prose Composition	7	7	7	1	1	1				15	13	14			
Literary Criticism in France	8			2						15					
Recent French Prose		9			2						15				
Speaking and Writing French			10			2				6		19			
French Seminary B	15	15	15	3	3	3					5	5			
French Comedy of XVIII Century	16			3						32					
French Society of XVII Century		17			3						26				
Precursors of French Romanticism			18			3						23			
Elementary Spanish	1	1	1	8	8	8				111	81	72			
Advanced Spanish	2	2	2	2	2	2				16	11	10			

TABLE II—SHOWING THE WHOLE NUMBER OF DEGREES IN COURSE CONFERRED SINCE THE FOUNDING OF THE UNIVERSITY.

	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.
Bachelor of arts	1	1																									
Bachelor of science	5	5	1																								
Bachelor of science in agriculture																											
Bachelor of science in chemistry																											
Bachelor of science in D. Science																											
Bachelor of science in H. F.																											
Bachelor of science, I. Arts																											
Bachelor of science in pharmacy																											
Civil engineer in architecture																											
Civil engineer																											
Mechanical engineer																											
Electrical engineer																											
Engineer of mines																											
Engineer of ceramics																											
Graduate in pharmacy																											
Master of veterinary medicine																											
Master of arts																											
Master of science																											
Master of agriculture																											
Master of science in H. and F.																											
Doctor of philosophy																											
Doctor of science																											
Bachelor of laws																											
Master of laws																											
Totals	6	7	9	8	9	11	12	16	18	24	28	26	30	33	65	79	70	112	118	135	126	99	137	135	141	170	194

TABLE III—SHOWING THE NUMBER OF STUDENTS IN THE GENERAL TECHNICAL AND PROFESSIONAL COURSES.

	1890-91	1891-92	1892-93	1893-94	1894-95	1895-96	1896-97	1897-98	1898-99	1899-1900	1900-01	1901-02	1902-03	1903-1904
General Courses (College of Arts).....	137	151	194	245	256	322	327	358	371	419	439	403	490	496
Technical Courses (other Colleges, except Law).....	166	259	381	398	424	453	453	511	541	603	771	888	1,039	1,135
Professional Courses (College of Law)		55	67	72	85	100	132	148	191	301	320	188	168	171
*Graduate students and summer school.....	2			1		94	97	133	75	45	51	49	62	108
Lake Laboratory (Summer)												19		23
Totals.....	305	465	642	686	745	969	1,019	1,150	1,178	1,288	1,481	1,547	1,757	1,933

* Until 1896, graduate students have been included in the first three classes.

REPORT OF LIBRARIAN.

DR. W. O. THOMPSON, *President of the Ohio State University.*

DEAR SIR:—I have the honor to submit herewith my report as Librarian for the year ending June 30, 1904.

The number of books recorded on the accession books of the Library is 53,383, being an increase of 5,160 over the number reported last year. Of this increase, 2,547 have been secured by purchase, 2,598 by gift and 15 by exchange.

PURCHASES.

Purchases of special interest have been:

1. Poggendorf's *Annalen der Physik und Chemie*. This is a notable set, the possession of which does much to place the Library upon a high scientific basis and to make it a center for scientific research in this part of the State. It is complete from 1824 with the exception of volumes 57-66, new series. These volumes, with the exception of volume 63, have been deposited in the Library by Professor Cole, with the understanding that they are to be used whenever needed.

2. Pfluger's *Archiv für die gesammte Physiologie des Menschen und der Thiere*, volumes 1-92, 1868-1902. This is a set of the highest scientific value and importance to the psychologist as well as the physiologist.

3. Books on economics and sociology belonging to the private library of Dr. F. C. Clark. These were purchased on a special order and with a special appropriation of the Board of Trustees.

GIFTS.

Appended to this report is a list of donors to the University Library. From this list it will be seen that we are still receiving valuable contributions from the Federal and State governments, from foreign governments and from learned societies. There have been also many gifts from individuals. Each gift is acknowledged when received, but grateful mention is hereby made of the generosity of all the friends of the University.

A gift of peculiar interest is the professional library of Professor Mesloh. With a beautiful spirit of appreciation of the close relationship which exists between a man and his books, Mrs. Mesloh has felt that Mr. Mesloh's books belong to the institution to which his professional services had been given, and with a like appreciation of the kindness of the University especially shown through Dr. Thompson, she has presented these books to the University. They consist of 355 volumes and 178 pamphlets, being dictionaries, grammars and texts in German, French, Sanskrit and other languages.

Of special value and interest is the gift of Professor Edward Orton of books belonging to the library of his father, Dr. Edward Orton. A portion of these were received last summer and have been incorporated in the University Library. The books treating mainly of geology are to be cared for during this coming summer.

The Siebert Fund has been continued by the annual gift of \$100 each from Mr. John and Mr. Louis Siebert. The \$200 just received completes the first \$1,000 given by these gentlemen.

The Outhwaite Collection of Works on the Civil War has not grown

largely during the year owing to the poor health of Mr. Outwaite, but that he has not forgotten it is shown by gifts lately received.

Incorporated in the Outhwaite Collection by the wish of the donor, Captain Alexis Cope, is the set of the annual volumes of the Society of the Army of the Cumberland. To this set Captain Cope has just added a collection of maps used by the officers during the active campaigns of the War of 1861. These are unique and have special value.

Mr. Henry J. Eady of Elyria, Ohio, has given to the University a valuable gift in a complete set of the Druggists' Circular.

From Mr. George T. Spahr have come the volumes of the Appleton's Annual from 1861-1875. This is a set which the Library has long desired and has often thought of purchasing. It contains specially good accounts of affairs during the time of the Civil War.

Through the efforts of Mr. H. W. Linen, General Cellan M. Spitzer, of Toledo, has presented a complete set of the National Cyclopaedia of American Biography.

The current volumes of many Herd Registers are being received and through the efforts of Professor Plumb several complete sets have been donated by the associations. It will not be long until this collection is one of the finest in the country.

Through the efforts of Professor Price we have received a complete set of the Rothamsted Memoirs on Agricultural Chemistry and Physiology.

EXCHANGES.

There have been received from the University of Wisconsin a number of volumes heretofore lacking in the Congressional set.

LOSS.

In the burning of the Chemical Building, the Library suffered to the extent of about \$1,000. This loss was in Pharmacy and Mining, the loss in Pharmacy being especially great. In Chemistry almost all of the books were saved in good condition. The books in Metallurgy were saved, but were badly water-soaked and had to be rebound.

There was also burned a collection of duplicate Government Documents and periodicals, which had been stored in the basement of the Chemical Building. These were all of intrinsic worth, but of not much money value to the Library.

ROOM.

At the beginning of this year there was a decided change made in the arrangement of the main room of the General Library. A door was cut between the small office formerly used by the Ohio Archaeological and Historical Society and the balcony. This new room was called the Annex, and it was decided to use it and the balcony entirely for stack purposes. Accordingly, all tables were removed from the balcony and it was as closely filled with cases as a convenient arrangement of the floor space would allow. There were then taken upstairs all books except the bound volumes of those periodicals indexed in Poole, and those of a similar general nature, and the reference books. These remained on the main floor. The northeast corner of this floor was converted into a periodical alcove and the current numbers of periodicals were brought up from the first floor so that all unbound numbers of the periodicals could be found in one place. The northwest corner

was enclosed, making a convenient though small catalogue room. By this arrangement, room has been secured for shelving which will probably make it possible to provide book space for the next year without serious inconvenience. The arrangement, however, made necessary the loss of three reading room tables. These have been kindly stored for the Library by Professor Price in Townshend Hall.

USE.

In spite of the loss of table room, the attendance at the General Library remains about the same this year as it was last. The average attendance as reported to the Faculty last year was 311. This year it is 318. The largest attendance on any one day last year was in November when it reached the number of 525. This year it is in April and it reached the number of 531. The average evening attendance is 33 this year as against 32 last year. The attendance at the Law Library seems to be increasing. The largest recorded attendance this year was 184 as against 116 of last year, and the average being 81 as against 65 of last year.

Of the reference work it is impossible to keep statistics, but that it is increasing is evident. The value of duplicate copies of the books used for required reading by professors has been demonstrated this year. A special fund was given last year for the purchase of such duplicates in the Department of American History and Political Science. Had it not been for this, it would have been impossible to have carried on the work along the lines on which it has been done during the present year.

HOURS.

The hours of the Librarby have been as usual during the term time, 14 hours each day (7:30 a. m. to 9:30 p. m.) excepting on Saturday when the Library is closed at 4 for the convenience of the janitor. Sunday opening will not be recommended until a library building is erected. During July and August the Library is open three hours each day.

STAFF.

At the beginning of the year there were two resignations from the Library Staff. Mr. C. B. Guittard resigned to accept a position in the Library of Congress and Mr. J. C. Cone resigned the position of Library Fellow to begin teaching.

The resignation of Mr. Guittard was a great loss to the Library. To his expert knowledge of Government Documents he had added a peculiar gift for library work, and during his years of service in the University Library he had done much to bring our collection of documents, both those issued by governments and by learned societies, to a high degree of excellence.

It was not thought advisable to continue the position which had been filled by Mr. Guittard and the Accession Department was reorganized to meet the existing conditions. Miss Getrude Kellicott, who had been in charge of all accessions received by purchase, was made head of the Accession Department with responsibility for all accessions, whether received by purchase, exchange or gift. This move was intended to separate as much as possible the responsibility and expert work from the clerical work of which a great amount is required in the Accession Department. A regular clerk was, however, not appointed for this year, but it is the intention that when conditions are favorable that such an appointment will be recommended.

The place of Library Fellow was filled by Mr. Max D. Morton, a graduate of the Ohio State University of 1903. Mr. Morton has given most efficient and conscientious service.

Complete knowledge of books is a varied knowledge, as many-sided as are the points of view from which books may be regarded.

1. Books may be regarded as "the final product of several allied trades which are not only among the oldest of our mechanical crafts, but which also stand for a peculiar admixture of great manual skill and high artistic attainment." To know them as such one must understand the history and present status of these trades, paper-making, printing, illustration and book-binding.

2. Books may be considered as manufactures put upon the market and subject to all economic conditions. Knowledge of them as such presupposes a business knowledge of the methods and conditions of publishing, jobbing and retail book-selling, in all countries and of all times.

3. Books may be considered as tools for the prosecution of search after a knowledge whether general or specific. Knowledge of them as each requires a knowledge of bibliography in general. It supposes a knowledge, more or less complete, of everything which has been published on a subject, a knowledge which labels each book according to its date, according to its format, according to its author, according to its content and according to the point of view of such content.

4. Books may be considered as vital helps, not simply as tools to be used, but as living ideas to be assimilated. Such knowledge presupposes a mind educated to the best, and responsive to the highest influences.

5. Books may be looked upon as objects to be housed and listed. To understand such handling of them involves knowledge of the rules of cataloguing and of all methods used in care of books.

To a greater or less degree all five varieties of knowledge are necessary for that particular class of book workers known as librarians, and in order to satisfy the requirements for a modern librarian to this knowledge must be added the gift of bringing the book to the people. In a small library, one worker can often unite in himself sufficient knowledge and sufficient power in all these directions to make his library of service to his community, but as the library grows larger there must be differentiation of work and differentiation of expert knowledge. Some knowledge in all these lines is necessary for every worker no matter in what line he may specialize, but in a large library specialization becomes as necessary as in the teaching profession.

Such professional knowledge can be built only on a foundation of a broad education. Books have been published in all languages; therefore, to thoroughly know books, there must be knowledge of all languages. Books have been published on all subjects, therefore, to know books, there must be some knowledge of all subjects with a broad knowledge of at least one. A college degree is now being required for admission to the older library schools, and in the University Library a college education is found to be essential as a preparation for much of the work.

Professional training is now being given in the library schools, of which there is a constantly increasing number in this country; yet, it can also be gained by work and study in a library. Undoubtedly, the ideal way is that which is now considered best in the engineering professions, a technical course in a school, then practical experience. But, however, the training may be secured, these two things are necessary for a library worker, a general education and a technical or professional education. The time has gone by when it is thought that "anyone can be a librarian," and the time is rapidly going

by when it is thought that the work is not worth in money value the same as other occupations requiring even less preparation.

One fact which has probably tended to maintain the idea that library work has not the same money value as teaching or as other professional pursuits is that connected with all lines of library work there is much manual and clerical labor. The problem confronting the profession is how to differentiate the expert work from the clerical. On this subject, Mr. Hodges, Librarian of the Public Library of Cincinnati, in his last report, says: "There is much of a clerical nature in the cataloguing department" (and this is true of every department) "which can be done by anyone of good education and having a reading knowledge of French and German. . . . The time of trained cataloguers should be expended only on such work as no others can do." Attention is called to the fact that for this clerical work Mr. Hodges requires the first of the two requirements for a librarian, i. e., a good education.

The Library of the Ohio State University is confronted with the necessity of attempting to do its work with an inadequate number of trained assistants paid an inadequate price. In order to make the number of trained people of the greatest service to the University, it has been the endeavor to relieve them as much as possible of all clerical work. There being no money to secure good clerks (that is, people of college education who in almost any other line of work could be getting good salaries), the expedient of using student help has been adopted. In the University the average rate of payment for student help is 12½ cents per hour, or \$1.00 per day for a day of 8 hours. For this small sum a person of approximately "good education" is secured and one acquainted with University customs and needs, but the business habits of application and continuity of work cannot be expected. At present in the University Library student help is employed:

1. In the Law Library. All technical work with the law books, the ordering, accessioning, cataloguing and shelf-listing, is done in the General Library and the books are taken to the Law Library ready to be put upon the shelves. That a trained reference librarian would be an advantage in the Law Library is not for one minute to be doubted, but up to this time there has not been money to secure such a person; it seeming more desirable to put the money into books which the law students can use for themselves than to put it into a helper trained to assist in the use of books. Accordingly, the work in the Law Library has been reduced to charge of the room, care of the shelves and the very elementary reference work of showing students where to find books. This work is done by law students. Their time not being all occupied in this work, they are paid but 10 cents per hour.

2. At the charging desk. The charging desk is placed by the "reserved book shelves" on which are kept the books which classes are required to read. All records of home circulation of books, the use of the reserved books, and the check sheet of the attendance at the Library are kept at the charging desk. This work not requiring full time and not having the responsibility of the Law work is paid but 5 cents an hour excepting in the evening, when, because of the burden of night work, it is paid 10 cents per hour. We have found students well able to do this work, but because of the changes required at various hours there is sometimes a lapse in the accuracy of keeping the records.

3. In the mechanical work of collating, cutting, opening, stamping and plating books.

4. For messenger service, that is, bringing books from the stack and replacing books on the shelves.

5. Because of the lack of money to have regular assistants and because of the opportunity of securing the work of two young women, graduates of the University and private students in Library Science with the Librarian, much of the work of accessioning and cataloguing has this year been done by the hour at the rate of 20 cents per hour. The same work next year will be paid at the rate of 25 cents per hour. In other libraries for such work 30 and 35 cents per hour is paid regularly to library students.

For the work of (3) and (4) student labor is as good as any we could secure, but for (1), (2) and (5) regular assistants would be better.

The sum total of the amounts paid to different people and chargeable to the student assistance account seems large. The amount appropriated for next year is \$800.00 which is less than the amount paid during the year which has just closed, yet to have this same work done by regular clerks or assistants would take at least double the amount. Of course, the Library loses in continuity and application.

As has been said before, the Library has had to face the condition of an inadequate number of trained assistants inadequately paid. The inadequacy of the number has been remedied as much as possible by securing student help as outlined above. The inadequacy of the pay cannot be remedied. That some of the assistants prefer to stay at home to hunting larger salaries in other places is a personal matter, and the University is simply taking advantage of personal conditions in using their services at a low figure. That those not so held will not stay for the salaries paid at the Ohio State University was evidenced:

1. In the fall of 1902, when Mr. Frank Bohn resigned to go to the University of Michigan. Mr. Bohn resigned to accept a fellowship which has just resulted in his doctor's degree; however, had his salary been such as he had hoped it would be, he would have undoubtedly continued to give the Library valuable service for a number of years.

2. In the summer of 1903, when Mr. C. B. Guittard was called from the University Library to the Library of Congress at a material increase in salary.

These two instances bring out plainly two facts. One has been already mentioned. It is that a person free to go will not stay for small salary unless held by love of the work and by love of the institution. The other fact is that to keep men in a library the compensation must equal that given for teaching. This brings up an important fact, i. e., the increasing number of women entering the library profession; not as I take it, the decreasing number of men, but the decreasing proportion of men. To a man academically inclined the library profession holds out as many inducements as teaching, and in the large public libraries is satisfying even to a man with business talents, but a man at all able must have material compensation for his work and he will have it even if it means taking up another line of work.

It is not too early to sound in the library profession the warning which at this late day is being sounded in the teaching profession, that the profession is becoming feminized. This means nothing disparaging to womanly influence, but it does emphasize the need of the virile element. There can be no question but that all educational forces should combine the work of men and women.

That there should be this combination in the Staff of the University Library has been often mentioned by me before, but I beg leave to call it to your attention again and to respectfully urge that conditions be such that it will be possible to secure and retain the services of educated men in the University Library.

Respectfully submitted,

OLIVE JONES, *Librarian.*

ANNUAL REPORT

OF

L. F. KIESEWETTER, Treasurer

OF THE

OHIO STATE UNIVERSITY

YEAR ENDING JUNE 30, 1904

REPORT OF THE TREASURER.

COLUMBUS, OHIO, June 30, 1904.

To the President of the Board of Trustees of the Ohio State University:

SIR:—I hand you herewith my annual report for the fiscal year ending June 30, 1904, accompanied by duly receipted vouchers for all disbursements.

Very respectfully,

L. F. KIESEWETTER,
Treasurer.

DETAILED
STATEMENT OF RECEIPTS

—BY—

L. F. KIESEWETTER, Treasurer.

STATEMENT No. I

DETAILED STATEMENT OF RECEIPTS BY L. F. KIESEWETTER, TREASURER, DURING FISCAL YEAR ENDING JUNE 30, 1904.

Date.	From whom received.	From what source.	Amount.
1903			
July	1 Alexis Cope, secy.....	Balance in hands of F. W. Prentiss, Treas., June 30, '03.	6,910 28
	3 Auditor of State.....	Requisition No. 101, O. S. U. fund.....	24,957 00
	8 U. S. Government.....	Appropriation Act of August 30, 1890.....	25,000 00
	8 W. A. Landacre.....	Account cash sales store-room.....	900 00
	30 John G. Haas.....	Rents Page will lands.....	3,990 78
Aug.	7 Auditor of State.....	Req. No. 44, building levy...	10,467 50
Sept.	4 Auditor of State.....	Req. No. 103, building levy..	12,867 70
	4 Commrs. of Sinking Fund..	Interest on endowment.....	5,500 00
	4 Auditor of State.....	Req. No. 104, levy.....	31,702 52
	25 Auditor of State.....	Req. No. 105, O. S. U. levy..	20,042 69
	25 Wm. T. Magruder.....	Labor, etc.....	13 31
	25 C. W. Foulk.....	Fees summer laboratory.....	4 00
	25 Herbert Osborn.....	Fees lake laboratory.....	300 00
	25 Onyx Paint Co.....	Goods returned.....	9 25
	25 Frank R. Shinn, admr....	Rent Eggers lot.....	37 50
Oct.	3 Auditor of State.....	Req. No. 106, building levy..	10,338 87
	3 H. C. Lord.....	Rent.....	30 00
	3 F. E. Sanborn.....	Balance Dept. settlement....	1 26
	3 Commrs. of Sinking Fund..	Interest on endowment.....	2,750 00
	3 Alexis Cope, secy.....	Storeroom cards.....	2,500 00
	3 Alexis Cope, bursar.....	Students' fees.....	10,000 00
	3 Alexis Cope, bursar.....	Students' fees 1902-1903....	805 21
	27 Auditor of State.....	Req. No. 107, State levy....	20,689 31
	27 Geo. B. Kauffman.....	Rent.....	225 00
	27 A. D. Bullock.....	Fees Vet. clinic.....	69 45
	27 Taylor Williams Co.....	Overcharge on coal.....	42 26
	27 W. T. Magruder.....	Freight paid for.....	1 26
Nov.	11 Commrs. of Sinking Fund..	Interest on endowment.....	2,750 00
	11 Wm. McPherson.....	Rent.....	72 00
	11 A. D. Bullock, clerk.....	Fees Vet. clinic.....	82 55
	11 H. A. Weber.....	Payment on neostyle.....	10 00
	11 Alexis Cope, secy.....	Sale storeroom cards.....	900 00
	11 Alexis Cope, bursar.....	Students' fees.....	5,000 00
	17 Auditor of State.....	Req. No. 108, O. S. U. levy...	30,887 50
	17 Auditor of State.....	Req. No. 109, O. S. U. levy..	16,039 17
	27 Commrs. of Sinking Fund..	Interest on endowment.....	2,750 00
	27 Alexis Cope, bursar.....	Students' fees.....	2,000 00
Dec.	1 Seasongood & Mayer.....	Sale refund bonds and prem..	31,135 80
	21 Geo. Helpman.....	Stove.....	1 00
	21 C. P. Linhart.....	Towels.....	3 18
	21 H. C. Lord.....	Rent.....	30 00
	21 A. D. Bullock.....	Fees Vet. clinic.....	63 55
	21 B. F. Thomas.....	Rent.....	252 50
	21 Wm. McPherson.....	Rent.....	72 00
	21 T. A. Randall, secy.....	N. B. M. A. Scholarship.....	250 00
	21 Geo. B. Kauffman.....	Rent.....	195 00
	21 A. D. Bullock.....	Fees Vet. clinic.....	82 55
	21 A. D. Bullock.....	Fees Vet. clinic.....	79 20
	21 Alexis Cope, secy.....	Rents & profits, Page will fund	31,940 26
	23 L. F. Kiewewetter, treas...	Sale certfs. of indebtedness..	30,000 00

DETAILED STATEMENT OF RECEIPTS.—Continued.

Date.	From whom received.	From what source.	Amount.
1904			
Jan.	13 Commrs. of Sinking Fund..	Interest on endowment.....	3,320 84
	29 B. F. Thomas.....	Rent.....	54 00
	29 Wm. McPherson.....	Rent.....	36 00
	29 H. C. Lord.....	Rent.....	30 00
	29 F. R. Shinn, admr.....	Rent.....	37 50
	29 Ohio Geol. Survey.....	Coal used.....	18 33
	29 Alexis Cope, secy.....	Storeroom cards.....	2,350 00
	29 Alexis Cope, bursar.....	Students' fees.....	12,000 00
	29 Commrs. of Sinking Fund..	Interest on endowment.....	2,850 00
March	16 Auditor of State.....	Req. No. 110, O. S. U. levy...	41,163 76
	16 Auditor of State.....	Req. No. 111, O. S. U. bldg. .	4,963 01
	16 H. C. Lord.....	Rent.....	90 00
	16 B. F. Thomas.....	Rent.....	54 00
	16 Wm. McPherson.....	Rent.....	36 00
	16 Nellie Pumphrey.....	Deed.....	2 00
	16 A. D. Bullock.....	Fees Vet. clinic.....	52 10
	16 H. C. Lord.....	Rent.....	30 00
	16 A. D. Bullock, clerk.....	Fees Vet. clinic.....	133 45
	16 Wm. McPherson.....	Rent.....	36 00
	16 Commrs. of Sinking Fund..	Interest on endowment.....	4,275 00
	16 Alexis Cope, bursar.....	Students' fees.....	2,500 00
	25 Auditor of State.....	Req. No. 112, O. S. U. fund...	20,735 65
April	7 Auditor of State.....	Req. No. 113, O. S. U. levy...	19,601 94
	25 A. D. Bullock.....	Fees Vet. clinic.....	67 15
	25 H. C. Lord.....	Rent.....	30 00
	25 C. W. Bryant.....	Bricks.....	2 25
	25 B. F. Thomas.....	Rent.....	108 00
	25 C. W. Bryant.....	Bricks.....	27 50
	25 Mrs. C. W. Mesloh.....	Rent.....	205 20
	25 Wm. McPherson.....	Rent.....	36 00
	25 C. W. Bryant.....	Lumber and stone.....	64 50
	25 A. D. Bullock.....	Vet. clinic fees.....	86 35
	25 Geo. B. Kauffman.....	Rent.....	180 00
	25 Alexis Cope, bursar.....	Students' fees.....	7,500 00
	25 Alexis Cope, secy.....	Storeroom cards.....	1,900 00
	25 Commrs. of Sinking Fund..	Interest on endowment.....	3,000 00
	29 Auditor of State.....	Req. No. 114, emerg. approp..	6,222 52
	29 Auditor of State.....	Req. No. 115, O. S. U. levy...	8,010 48
	29 C. W. Bryant.....	Brick.....	1 85
	29 A. D. Bullock.....	Fees Vet. clinic.....	37 75
May	6 Auditor of State.....	Req. No. 116, O. S. U. fund...	5,553 18
	6 Alexis Cope, bursar.....	Students' fees.....	3,500 00
	18 Alexis Cope, secy.....	Storeroom cards.....	50 00
	18 A. D. Bullock, clerk.....	Fees Vet. clinic.....	120 60
	18 B. F. Thomas.....	Rent.....	54 00
	18 Wm. McPherson.....	Rent.....	36 00
	18 Alexis Cope, secy.....	Grad. School Agr. fees.....	142 95
	18 Commrs. of Sinking Fund..	Interest on endowment.....	2,500 00
	18 Alexis Cope, secy.....	Students' fees.....	2,000 00
	24 Auditor of State.....	Req. No. 117, Emerg. approp..	4,132 04
	24 Auditor of State.....	Req. No. 118, O. S. U. fund...	21,172 31
	31 Auditor of State.....	Req. No. 119, O. S. U. fund...	15,325 00
	31 Standard Oil Co.....	Credits empty barrels.....	9 67
	31 A. D. Bullock.....	Fees Vet. clinic.....	65 35
	31 C. H. Woodruff.....	Valve and elbow.....	1 48
	31 H. C. Lord.....	Rent.....	60 00
June	8 Auditor of State.....	Req. No. 120, State levy.....	21,304 81
	22 Auditor of State.....	Req. No. 122, O. S. U. levy...	5,558 52
	22 Auditor of State.....	Req. No. 121, emerg. approp..	1,763 27
	22 John Siebert.....	Siebert Library Fund.....	100 00

DETAILED STATEMENT OF RECEIPTS—Concluded.

Date.	From whom received.	From what source.	Amount.
June 22	Louis Siebert.....	Siebert Library Fund.....	100 00
22	Wm. McPherson.....	Rent.....	36 00
22	A. D. Bullock.....	Fees Vet. clinic.....	110 10
22	A. D. Bullock.....	Fees Vet. clinic.....	5 80
22	Alexis Cope, secy.....	Diploma.....	1,020 00
22	Alexis Cope, secy.....	Certificates Law.....	25 00
22	Alexis Cope, secy.....	Summer shop.....	481 30
28	Commrs. of Sinking Fund..	Interest on endowment.....	4,561 53
28	Alexis Cope.....	Summer shop fee.....	3 70
30	John G. Haas, Agt.....	Rents & profits Page lands...	5,443 43
30	R. M. Royer.....	Cash sales.....	500 00
30	Geo. L. Hopper.....	Certificate Coll. Law.....	5 00
30	Wm. J. Housel.....	Certificate Coll. Law.....	5 00
30	Alexis Cope, secy.....	Summer shop.....	14 00
		Total receipts.....	\$582,360 58

DETAILED
STATEMENT OF DISBURSEMENTS

—BY—

L. F. KIESEWETTER, Treasurer

STATEMENT No. II.

DETAILED STATEMENT OF DISBURSEMENTS BY L. F. KIESEWETTER,
TREASURER, DURING FISCAL YEAR ENDING JUNE 30, 1904.

Date.	To whom paid.	For what purpose.	No.	Amount.
1903				
July 3	H. L. Beach.....	Labor.....	1	\$ 10 50
3	Fred Brewer.....	Labor.....	2	46 76
3	J. E. Bender.....	Horse \$5, stamps \$5.....	3	10 00
3	F. E. Bentler.....	Labor.....	4	2 42
3	H. L. Bostater.....	Labor.....	5	22 30
3	H. B. Brooks.....	Labor.....	6	8 00
3	E. J. Billings.....	Labor.....	7	11 37
3	Harry Carson.....	Labor.....	8	10 40
3	F. C. Caldwell.....	Supplies Eng. dept.....	9	4 68
3	Howard Cromer.....	Labor.....	10	1 18
3	Robert Cunningham...	Labor.....	11	7 50
3	Harry S. Day.....	Labor.....	12	9 00
3	W. O. Dean.....	Labor.....	13	2 24
3	Mary De Camp.....	Labor.....	14	18 35
3	Samuel C. Derby.....	Expense.....	15	2 60
3	M. Dresbach.....	Supplies.....	16	6 90
3	Effie Duncan.....	Labor.....	17	8 95
3	S. V. Peppel.....	Expense.....	18	19 75
3	Grace Eagleson.....	Labor.....	19	4 60
3	Lee W. Funk.....	Labor.....	20	25 00
3	John Graft.....	Labor.....	21	44 80
3	Mamie F. Hill.....	Labor.....	22	5 00
3	R. H. Hunter.....	Labor.....	23	1 60
3	W. F. Hunter.....	Supplies, Law School.....	24	1 75
3	W. E. Hosler.....	Labor.....	25	4 00
3	Evaline Harrington...	Labor.....	26	3 50
3	Olive Jones.....	Labor.....	27	17 90
3	W. A. Kellerman.....	Supplies bot.....	28	13 52
3	W. C. Kalb.....	Labor.....	29	15 35
3	W. A. Landacre.....	Money advanced.....	30	46 17
3	The Lantern.....	Adv.....	31	58 34
3	The Makio.....	Adv.....	32	20 00
3	Clara G. Mark.....	Labor.....	33	15 00
3	Helen Powell.....	Labor.....	34	12 90
3	Marion Peck.....	Labor.....	35	59 25
3	Roy Pratt.....	Labor.....	36	43 20
3	C. R. Ross.....	Labor.....	37	3 07
3	James Stainbrook.....	Labor.....	38	48 43
3	Ray Stokely.....	Labor.....	39	7 78
3	John A. Schneider...	Labor.....	40	45 85
3	Carl E. Steeb.....	Labor.....	41	6 50
3	Earl Thomas.....	Labor.....	42	46 40
3	B. F. Thomas.....	Physics supplies.....	43	14 54
3	W. O. Thompson.....	Expenses.....	44	17 56
3	G. C. Vennum.....	Labor.....	45	2 00
3	A. J. Wagner.....	Labor.....	46	1 80
3	J. R. Woods.....	Labor.....	47	13 00
3	F. M. Webber.....	Labor.....	48	7 50
3	David S. White.....	Labor and supplies.....	49	10 94
3	American Bridge Co....	Mech. Eng. and Machy.....	50	31 45
3	Artura Photo Paper Co.	Photo paper.....	51	13 13
3	Beck Bergener & Co....	Ink.....	52	60

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
July	3 Bucher Engraving Co.	Half tone.....	53	2 60
	3 H. Braun, Sons & Co.	Chemicals.....	54	14 48
	3 Buckeye Transfer Co.	Freight.....	55	96 33
	3 Bowden Towel Sup. Co.	Towels.....	56	71 64
	3 Blackwood Green & Co	Hardware.....	57	8 10
	3 Columbus Photo Sup- ply Co.	Lab'y supplies.....	58	5 50
	3 Columbus Merchandise Co.	Twine.....	59	1 91
	3 Central Ohio Paper Co.	Blanks.....	60	7 00
	3 J. W. Coon.	Plate for school.....	61	35 00
	3 Columbus Bank Note Co.	Diplomas.....	62	97 50
	3 E. L. Charles.....	Hauling.....	63	2 75
	3 Cols. Forge & Iron Co.	Forgings.....	64	8 04
	3 Cotts Quick Printing House	Printing.....	65	9 00
	3 E. A. Cole & Co.	Coal.....	66	193 58
	3 The Geo. D. Cross Lumber Co.	Lumber.....	67	24 76
	3 Columbus Supply Co.	Repairs buildings.....	68	29 59
	3 The Cols. Mill & Mine Supply Co.	Repairs buildings.....	69	111 85
	3 Capital City Machine Works	Repairs buildings.....	70	8 52
	3 Champlin Printing Co.	Printing.....	71	455 50
	3 E. Doddington.....	Lumber.....	72	57 31
	3 The Erner Hopkin Co.	Repairs buildings.....	73	27 66
	3 Elec. Supply & Const. Co.	Repairs buildings.....	74	15 75
	3 Engelke & Bigelow.....	Hauling.....	75	40 06
	3 F. W. Freeman.....	Groceries.....	76	10 49
	3 Franklin Park Floral Co.	Flowers and decorations....	77	115 00
	3 J. J. Gheen.....	Plastering.....	78	4 75
	3 Green Joyce & Co.	Towels and ribbon.....	79	58 21
	3 F. G. & A. Howald.....	Filter.....	80	2 00
	3 Chas. T. Howe.....	Music com.....	81	73 00
	3 Hann & Adair.....	Printing.....	82	8 00
	3 The Hatton Pharmacy	Carnations.....	83	3 50
	3 Fred J. Heer.....	Printing and stationery....	84	18 25
	3 R. R. Johnston.....	Com. lunch.....	85	344 00
	3 James Kearney.....	Drilling well.....	86	396 25
	3 The Krauss, Butler & Benham Co.	Decorations.....	87	20 00
	3 Kimball & Mathews...	Photo supplies.....	88	18 03
	3 The Livingston Seed Co.	Carnations.....	89	10 00
	3 Lynas Bros.....	Jars.....	90	2 00
	3 The Lawrence Press Co	Printing and stationery....	91	511 65
	3 The M. C. Lilley Co.	Incid.....	92	6 64
	3 J. S. Maclean.....	Oak cabinet.....	93	67 50
	3 McDonald & Steube...	Candles.....	94	1 30
	3 W. H. Miller Co.	Pipe and fittings.....	95	620 81
	3 Nitschke Bros.....	Printing and stationery....	96	49 35
	3 Ohio Furniture & Mantle Co	Tables.....	97	4 50
	3 O. T. R. C. Depositary	Books.....	98	7 10
	3 T. J. O'Neil.....	Rent awnings.....	99	25 00
	3 Orr, Brown & Price...	Chemicals.....	100	4 19

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
July	3 Pure Milk Co.....	Milk.....	101	12 98
	3 Payne, McDonald			
	Hardware Co.....	Hardware.....	102	20 74
	3 James Penn.....	Hauling, etc.....	103	85 65
	3 G. Rolke.....	Cakes.....	104	6 00
	3 Ross Chemical Co.....	Chemicals.....	105	25 23
	3 Ruggles-Gale Co.....	Blank books, stationery.....	106	23 00
	3 Sheldon Dry Goods Co	Cambric.....	107	8 75
	3 A. H. Smythe.....	Twine, pencils, pens.....	108	2 55
	3 Schroth & Potter.....	Shades.....	109	7 15
	3 Schoedinger Fearn & Co.....	Hardware.....	110	13 84
	3 Tracy-Wells Co.....	Tiles.....	111	1 00
	3 Tallmadge Hdw. Co....	Hardware.....	112	3 03
	3 Zaner & Blosser.....	Certificates.....	113	1 40
	3 W. H. Anderson & Co.	Books.....	114	17 25
	3 Am. Academy Pol. & Soc. Science.....	Annals.....	115	2 00
	3 American Electro Chem. Society.....	Volumes.....	116	4 00
	3 Burrows Bros. Co....	Books.....	117	16 62
	3 Boston Book Co.....	Books.....	118	10 46
	3 Columbia Refining Co.	Oil soap.....	119	31 33
	3 Central Electric. Co....	Bushings, etc.....	120	34 79
	3 The Dibdin Club.....	Book.....	121	5 00
	3 Dodd Mead & Co.....	Year book.....	122	4 80
	3 Empire Elec. Instru- ment Co.....	Ammeter.....	123	45 50
	3 Johnson Service Co....	Tower clock.....	124	360 00
	3 H. W. Johns Manville Co.....	Gaskets.....	125	29 75
	3 J. E. Janney.....	Boxes and packing.....	126	8 30
	3 Jarecki Mfg. Co.....	Filtering mat.....	127	2 80
	3 Knauth, Nachod & Kuehne.....	Books.....	128	15 61
	3 Eli Lilley & Co.....	Drugs.....	129	15 00
	3 Masury, Young & Co..	Cyl. oil.....	130	20 33
	3 Montgomery, Ward & Co.....	Sundries.....	131	8 77
	3 Forest Shreve.....	Jamaica fruits.....	132	20 00
	3 Statute Law Book Co..	Documents.....	133	12 00
	3 Standard Electrical Mfg. Co.....	Star lamps.....	134	37 50
	3 Gustav E. Stechert....	Books.....	135	5 72
	3 Henry Wark.....	Books.....	136	12 00
	3 Westinghouse Elec. & Mfg. Co.....	Porc. holder.....	137	3 60
	3 Weston Elect. Inst. Co	Rep. voltmeter.....	138	12 80
	3 J. C. Howard.....	Painting.....	139	105 35
	3 H. L. Beach.....	Labor.....	140	3 75
	3 Cols. Gas Co.....	Gas.....	141	149 03
	3 John T. Mack.....	Expense, meeting.....	142	25 50
	3 Guy W. Mallon.....	Expense, meeting.....	143	7 50
	3 M. E. Barr.....	Labor.....	144	1 20
	3 Grace Eagleson.....	Labor.....	145	1 25
	3 C. S. Plumb.....	Expense.....	146	5 80
	3 John W. Decker.....	Expense.....	147	5 60
	3 J. V. Denney.....	Expense.....	148	5 00
	3 Alexis Cope.....	Expense.....	149	5 00
	3 Bucher Eng. & Mfg. Co.....	Half tones.....	150	13 95

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
3	Geo. Feick.....	Estimate No. 1 Lake Lab. bldg.....	151	2,090 00
3	D. W. McGrath.....	Estimate No. 4 Engr. bldg.	152	16,435 00
3	Jas. Westwater & Co..	Estimate No. 6 Vet. bldg. Estimate No. 1 extra.....	153	4,432 00
3	Blackwood, Green & Co.....	Tools.....	154	16 35
3	Alfred R. Barrington..	Music.....	155	35 00
3	Acme Paving Co.....	Laying walks.....	156	454 50
3	Payne, McDonald Hardware Co.....	Hardware.....	157	10 55
3	Adrianne Platt & Co..	Mach. parts.....	158	1 50
3	Luis Gonsebatt.....	Labor.....	159	1 50
3	J. R. Clements.....	Labor.....	160	8 00
3	Belisano Silfa.....	Labor.....	161	1 50
3	Max McGaughy.....	Labor.....	162	3 00
3	J. F. Crone.....	Labor.....	163	1 50
3	Eugene Waters.....	Labor.....	164	2 25
3	John Mailing.....	Labor.....	165	8 10
3	S. Cheseldine.....	Labor.....	166	1 50
3	Fred Fleischer.....	Labor.....	167	13 95
3	Alfred Roberts.....	Labor.....	168	21 06
3	Clyde Martin.....	Labor.....	169	26 25
3	J. F. Hays.....	Labor.....	170	10 87
3	W. R. Fleischer.....	Labor.....	171	10 44
3	H. H. Sanders.....	Labor.....	172	14 70
3	J. C. Miron.....	Labor.....	173	10 37
3	F. G. Green.....	Labor and team.....	174	121 97
3	D. L. Hurst.....	Labor.....	175	29 06
3	Geo. G. Moler.....	Labor.....	176	17 25
3	W. D. Griffith.....	Labor.....	177	47 60
3	Warren & Southwick Crge. Co.....	Repairs milk wagon.....	178	28 45
3	Internatl. Harv. Co. . of America.....	Repairs machine.....	179	9 91
3	W. Burdell Jr.....	Harness.....	180	171 15
3	J. C. Hern.....	Soil tester.....	181	4 50
3	A. H. Reid Supply Co.	Repairs machine.....	182	7 50
3	Frank W. Hart.....	Calf.....	183	200 00
3	J. W. L. Motherspaw...	Cow.....	184	40 00
3	D. H. Old.....	Cows.....	185	135 00
3	J. H. Sanders Pub. Co.	Ad. Herdsman.....	186	3 50
3	Central Ohio Paper Co.	Paper.....	187	4 00
3	Jacob Weisheimer.....	Grinding.....	188	3 10
3	J. I. Holcomb Mfg. Co.	Brushes.....	189	34 80
3	Borger Bros. Co.....	Rep. boilers.....	190	17 00
3	Bowden Towel Supply Co.....	Towels.....	191	9 45
3	Columbus Supply Co...	Thermometer.....	192	1 00
3	Capital City Mach. Works.....	Equipment Agricult.....	193	55 16
3	C. L. Geilaugh.....	Three Short horns.....	194	635 00
3	J. W. Wood.....	Bull.....	195	500 00
3	John G. Bigham.....	Jersey Cow.....	196	120 00
3	Williams Studio.....	Prints.....	197	2 20
3	Library Bureau.....	Newspaper files.....	198	10 00
3	Champlin Printing Co..	Printing.....	199	67 50
8	Alexis Cope.....	Salary July.....	200	187 50
3	O. O. Sauerbrun.....	St. R. Card.....	201	4 88
3	Harry Kanode.....	Hauling.....	202	1 00
3	Fred Sample.....	Labor.....	203	16 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
July 3	Carl E. Steeb.....	Salary July.....	204	83 33
10	H. S. Knox.....	St. R. Card.....	205	1 22
13	Robert B. Stewart....	Fees returned.....	206	5 00
13	F. E. Sanborn.....	Salary summer school.....	207	200 00
16	R. M. Rownd.....	Stamped envelopes.....	208	10 60
16	Cols. Citizens Tel. Co..	Telephone charges.....	209	95 20
18	H. S. Day.....	Electric wiring.....	210	1 60
18	Norman S. Slee.....	Extra Jan. service.....	211	9 30
18	W. H. Renck.....	Salary.....	212	100 00
18	W. A. Knight.....	Salary.....	213	120 00
22	C. P. Crowe.....	Salary.....	214	100 00
25	W. O. Thompson.....	Salary July, 1903.....	215	416 67
25	Katharine Duncan.....	Salary.....	216	66 66
25	Edith D. Cockins.....	Salary.....	217	66 66
25	Edith R. Hubler.....	Salary.....	218	40 00
25	Minnie F. Hines.....	Salary.....	219	40 00
25	W. C. McCracken.....	Salary.....	220	150 00
25	Wm. Standley.....	Salary.....	221	65 00
25	Wm. Case.....	Salary.....	222	55 00
25	Benjamin Le Bay.....	Salary.....	223	55 00
25	Geo. R. Rose.....	Salary.....	224	75 00
25	Earl Kimmel.....	Salary.....	225	25 00
25	Chas. H. Woodruff.....	Salary.....	226	70 00
25	J. P. Covan.....	Salary.....	227	83 33
25	A. F. Hall.....	Salary.....	228	73 33
25	John Ricketts.....	Salary.....	229	45 00
25	Thos. E. Osburn.....	Salary.....	230	45 00
25	Jas. Kelly.....	Salary.....	231	30 00
25	R. M. Martin.....	Salary.....	232	20 00
25	Chas. M. Hicks.....	Salary.....	233	45 00
25	Earl Conway.....	Salary.....	234	25 00
25	G. A. Goodspeed.....	Salary.....	235	40 00
25	John Brown.....	Salary.....	236	25 00
25	John Brown.....	Salary.....	237	15 00
25	W. R. Thomas.....	Salary.....	238	40 00
25	Wm. Whitestine.....	Salary.....	239	40 00
25	Harry Chantler.....	Salary.....	240	40 00
25	Washington Townsel..	Salary.....	241	20 00
25	Geo. C. Denney.....	Salary.....	242	40 00
25	M. N. Cook.....	Salary.....	243	40 00
25	H. M. Templin.....	Salary.....	244	40 00
25	John W. Brown.....	Salary.....	245	40 00
25	Laurel L. Hill.....	Salary.....	246	40 00
25	W. C. Mills.....	Salary.....	247	40 00
25	James McOwen.....	Salary.....	248	40 00
25	Ray M. Royer.....	Salary.....	249	62 50
25	W. A. Landacre.....	Salary.....	250	75 00
25	Vernon H. Davis.....	Salary, July, 1903.....	251	83 33
25	Wm. A. Yeagle.....	Curry water.....	252	2 70
25	F. H. Eno.....	Salary summer school.....	253	150 00
25	W. L. Davies.....	Salary summer school.....	254	75 00
25	Frances Andrix.....	Salary, July, 1903.....	255	30 00
25	Herbert Osborn.....	Salary Lake Lab.....	256	225 00
25	James S. Hine.....	Salary Lake Lab.....	257	100 00
25	F. L. Landacre.....	Salary Lake Lab.....	258	100 00
25	W. A. Kellerman.....	Salary Lake Lab.....	259	225 00
25	Wm. Whitestine.....	Squirrel food.....	260	4 00
25	Pearl Contellier.....	Salary, July, 1903.....	261	10 00
25	C. E. Sherman.....	Salary summer school.....	262	150 00
28	Harry Carson.....	Labor.....	263	28 80
28	J. E. McCreight.....	Copies V. M. records.....	264	10 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
July 28	H. S. McClure.....	Copies V. M. records.....	265	12 65
25	Allando Case.....	Salary, July, 1903.....	266	60 00
Aug. 1	Alexis Cope.....	Salary August 1903.....	267	187 50
3	Florence Price.....	Salary, July, 1903.....	268	40 00
4	Earl Thomas.....	Labor.....	269	29 60
5	J. W. Roy.....	S. R. Card.....	270	1 60
5	R. M. Royer.....	S. R. Card.....	271	6 73
6	H. L. Beach.....	Labor.....	272	21 30
6	Central Union Tel. Co.	Phone rents and toll.....	273	24 10
6	Columbus Gas Co.....	June gas.....	274	87 75
6	Alec Argo.....	July salary.....	275	60 00
6	H. L. Bostater.....	Labor.....	276	40 80
6	Williard Budd.....	Labor.....	277	8 00
6	F. E. Bentler.....	Labor.....	278	40 50
6	Thos. Boude.....	Labor.....	279	41 60
6	F. C. Caldwell.....	Supplies.....	280	4 53
6	Earl Conway.....	Labor.....	281	50
6	J. R. Clements.....	Labor.....	282	10 20
6	R. H. Cunningham.....	Guide.....	283	3 00
6	W. R. Fleischer.....	Labor.....	284	13 92
6	F. E. Fleischer.....	Labor.....	285	32 55
6	L. W. Funk.....	Labor.....	286	56 60
6	Luis Gonsebatt.....	Labor.....	287	7 05
6	F. G. Green.....	Labor.....	288	112 00
6	W. D. Griffith.....	Campus work.....	289	50 60
6	A. G. Geren.....	Blue print supplies.....	290	15 65
6	E. M. Gorrell.....	Labor.....	291	12 75
6	John Graft.....	Labor.....	292	46 40
6	Harry T. Hance.....	Analys. water.....	293	150 00
6	D. L. Hurst.....	Campus work.....	294	22 37
6	W. C. Kalb.....	Labor.....	295	12 22
6	L. R. Lee.....	Labor.....	296	3 30
6	R. M. Maston.....	Campus work.....	297	1 72
6	G. G. Moler.....	Labor.....	298	18 30
6	Clyde Martin.....	Campus work.....	299	37 50
6	J. R. Montgomery.....	Guide work.....	300	22 88
6	O. V. Maurer.....	Janitor work.....	301	5 70
6	Edward Orton, Jr.....	Money advanced.....	302	11 20
6	Roy Pratt.....	Labor.....	303	42 40
6	Marion Peck.....	Labor.....	304	47 25
6	Herbert Osborn.....	Money advanced.....	305	5 20
6	John A. Schneider.....	Carpenter work.....	306	53 20
6	Thomas Swank.....	Carpenter work.....	307	14 00
6	Belisario Silfa.....	Campus work.....	308	4 50
6	J. H. Randall.....	Carpenter work.....	309	30 80
6	James Stainbrook.....	Labor.....	310	43 42
6	F. M. Stanton.....	Campus work.....	311	3 07
6	Ray Stokeley.....	Labor.....	312	5 18
6	J. R. Thomas.....	Labor.....	313	26 92
6	J. R. Woods.....	Labor.....	314	18 40
6	W. A. Yeagle.....	Labor.....	315	8 87
6	Guy W. Mallon.....	Expenses.....	316	7 80
7	D. W. McGrath.....	Est. No. 5 Eng. bldg.....	317	8,645 00
7	Jos. N. Bradford.....	Arch. services Eng. bldg.....	318	1,000 00
7	Jos. N. Bradford.....	Arch. services Chem. bldg.....	319	300 00
7	Jas. Westwater & Co.....	Est. No 7 Vet. bldg.....	320	522 50
7	Jas. S. Abbott & Co.....	Locks, butts, etc.....	321	29 38
7	Fred W. Atcherson.....	Coach.....	322	10 50
7	Andrews & Barnes.....	Belt brushes.....	323	1 42
7	American Bridge Co.....	Dampers.....	324	95 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
7	David C. Beggs Co....	Denum oil cloth.....	325	12 88
7	Beek & Orr	Binding.....	326	1 00
7	Bishop, Jones & Co....	Basin, etc.....	327	98
7	Berlin Printing Co....	Tests, Dairy bulletin.....	328	43 80
7	Bucher Engr. & Mfg. Co.....	Cuts, etc.....	329	22 90
7	Jas. P. Carlisle.....	Jersey.....	330	2 75
7	Chas. S. Plumb.....	Money advanc.....	331	12 00
7	Geo. D. Coss Lumber Co.....	Lumber.....	332	17 50
7	Cols. Mill & Mine Sup. Co.....	Flange, pipe, etc.....	333	90 73
7	Cols. Supply Co.....	Cement, valves, etc.....	334	24 00
7	Capital City Mach. Works.....	Plates, springs, etc.....	335	37 50
7	Cols. Macadam Co.....	Lime and screenings.....	336	63 50
7	Champlin Printing Co.	Letter heads and vouchers...	337	8 25
7	Cols. Hardware Co....	Supplies.....	338	12 43
7	The H. Cole Co.....	Supplies.....	339	10 83
7	The Columbus Gas Co..	Coke.....	340	20 30
7	Columbus Sewer Pipe Co.....	Tile, pipe, etc.....	341	19 25
7	Chittenden Hotel.....	Board, Baldwin.....	342	10 00
7	Cols. Transfer Co.....	Coach, "White".....	343	5 25
7	Cols. Steam Boiler & H. Co.....	Tank.....	344	111 75
7	F. L. Charles.....	Hauling.....	345	1 00
7	Cols. Hardware Co....	Bobs, tape, etc.....	346	7 25
7	Citizens Ice & Coal Co.	Books.....	347	16 00
7	Cols. Paint Mfg. Co....	Paints, etc.....	348	17 00
7	Cherrington P. & Eng. Co.....	Stamp.....	349	4 00
7	Central Ohio Paper Co.	Paper.....	350	297 68
10	E. A. Cole & Co.....	Coal.....	351	11 50
10	W. J. Davidson.....	Hauling.....	352	1 00
10	Engelke & Bigelow....	July work.....	353	52 18
10	The Erner & Hopkins Co.....	Electrical supplies.....	354	524 17
10	J. J. Gheen.....	Plastering.....	355	134 10
10	The Griswold Sohl Co..	Iron.....	356	26 12
10	P. Hayden Sad. Hdw. Co.....	Grate bars, castings, etc....	357	43 19
10	The Hanna Paint Mfg. Co.....	Zinc.....	358	7 50
10	Hallwood Cash Regis- ter Co.....	Drawer.....	359	150 00
10	The Hamilton & Par- ker Co.....	Coal.....	360	28 92
10	Hann & Adair.....	Printing.....	361	12 10
10	Kauffman, Lattimer Co.....	Supplies.....	362	639 79
10	Kelton & Converse....	Lumber.....	363	34 92
10	Monypeny, Hammond Co.....	Supplies.....	364	9 00
10	Murray City Coal Co..	Coal.....	365	192 64
10	Madden Darrah Wall Paper Co.....	Painting.....	366	121 25
10	McAllister, Mohler Co..	Mirror and chairs.....	367	13 75
10	Nitschke Bros.....	Paper supplies.....	368	3 93
10	T. J. O'Neil.....	Canvas.....	369	45 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Aug. 10	The Onyx Paint Co....	Paint and glue.....	370	23 25
10	James Ohlen & Sons Saw Co.....	Steel.....	371	7 00
10	R. L. Polk & Co.....	Directory (2).....	372	10 00
10	Ben D. Potts.....	Sink.....	373	4 63
10	James Penn.....	Hauling.....	374	6 35
10	Carl Reynolds.....	Retouching.....	375	4 50
10	The Ruggles-Gale Co..	Records.....	376	3 00
10	Spahr & Glenn.....	Letter heads.....	377	2 50
10	Standard Oil Co.....	Oil and gasoline.....	378	29 84
10	Schoedinger, Fearn & Co.....	Screws, nails, etc.....	379	6 87
10	Tracy-Wells & Co.	Supplies.....	380	48 16
10	Williams Studio.....	Prints.....	381	1 00
10	J. M. & W. Westwater	Supplies.....	382	1 50
10	Wilkin, Redman Co..	Piano cartage.....	383	6 50
10	Warren & Southwick Cge. Co.....	Repairing wagon.....	384	59 55
10	Wiggins Stamp Fact- ory.....	Stamps.....	385	5 00
10	Western Kiely Steam Spec. Co.....	Valve and trap.....	386	38 75
10	A. L. Yardley.....	Screens.....	387	3 75
10	W. H. Anderson Co..	Books.....	388	114 00
10	Am. Arch. & Bldg. News Co.....	Books.....	389	9 00
10	Beaver Falls Art Tile Co.....	Biscuits.....	390	9 00
10	Babcock & Wilcox Co.	Payment on boiler.....	391	2,132 00
10	G. S. Burrell.....	Lettering.....	392	7 50
10	Burris Damascus Tool Co.....	Tools.....	393	17 22
10	Charity Organization Society.....	Subscription.....	394	2 00
10	Central Electric Co....	Conduit.....	395	158 21
10	Cin'ti Screw & Tap Co.	Nuts.....	396	3 49
10	Eimer & Amend.....	Objective.....	397	53 20
10	Chas. Fischer Co.....	Hauling.....	398	12 00
10	J. A. Fay & Egan Co..	Upper wheel.....	399	15 00
10	W. & L. E. Gurley....	Repairing.....	400	2 25
10	Henry T. Goebel.....	Chairs.....	401	6 00
10	Great Western Oil Co.	Disinfectant.....	402	18 00
10	Guntons Magazine....	Subscription.....	403	1 75
10	Herman Haerlein.....	Trip, expense, tracing.....	404	80 95
10	A. W. Hall Scientific Co.....	Posts and screws.....	405	5 60
10	Imperial Porcelain Wks	Jars and covers.....	406	25 70
10	L. H. Ingham, treas...	Dues, Ohio Coll. Assoc.....	407	10 00
10	India Alkali Wks.....	Savagran.....	408	18 12
10	Jarecki Mfg. Co.....	Radiators.....	409	209 39
10	Kuy-Scheerer Co.....	Supplies and boxes.....	410	17 95
10	Library Bureau.....	Tables, chairs, etc.....	411	795 00
10	Murphy Iron Works...	Furnaces.....	412	1,950 00
10	Michigan Pipe Co....	Conduits.....	413	443 90
10	H. Molyneaux.....	Repairs, sail boat.....	414	8 00
10	Phil Nell.....	Labels.....	415	2 56
10	R. H. Rice.....	Lettering.....	416	7 00
10	Queen & Co.....	Galvanometer.....	417	24 00
10	T. A. Randall & Co...	Adv.....	418	36 00
10	Republican Pub. Co...	Adv.....	419	12 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Aug. 10	Scientific Materials Co.	Supplies.....	420	126 84
10	E. R. Squibb & Son...	Paper.....	421	2 50
10	M. P. Street.....	Foundations.....	422	950 00
10	Stillwell-Bierce & \			
	Smith-Vaile Co.....	Rods, etc.....	423	13 00
10	Standard Chain Co....	Iron.....	424	40 63
10	Henry Tromener.....	Weights.....	425	55 60
10	Webb Sta. & Ptg. Co. .	Letter heads.....	426	21 00
10	Watertown Engine Co	Piston rings.....	427	14 00
10	West. Kieley Steam			
	Spec. Co.....	Valve.....	428	16 00
10	Weston Elect. Inst. Co.	Ammeter.....	429	14 50
10	Westinghouse Elec. &			
	Mfg. Co.....	Converter and oil.....	430	100 80
10	Henry R. Worthington	Pump.....	431	435 00
10	J. D. Davis.....	S. room card.....	432	2 00
10	Carl E. Steeb.....	August salary.....	433	83 33
14	Westinghouse Elec. &			
	Mfg. Co.....	Motor.....	434	499 00
14	J. F. Clevenger.....	Labor.....	435	16 35
15	W. C. McCracken.....	Money advanced.....	436	22 00
17	J. R. Clements.....	Campus work.....	437	6 85
19	Arthur Curmode.....	Labor.....	438	6 40
19	J. McLain Smith.....	Expenses.....	439	26 10
22	W. C. McCracken.....	Labor.....	440	26 60
22	Western Union Tel. Co.	Telegrams.....	441	5 14
24	Williard Budd.....	Labor.....	442	30 57
24	C. H. Woodruff.....	August salary, 1903.....	443	70 00
29	W. O. Thompson.....	August salary, 1903.....	444	416 67
29	K. H. Duncan.....	August salary, 1903.....	445	66 66
29	Edith D. Cockins.....	August salary, 1903.....	446	66 66
29	Edith R. Hubler.....	August salary, 1903.....	447	40 00
29	W. H. Brown.....	Files.....	448	2 00
29	Minnie Hines.....	August salary, 1903.....	449	40 00
29	W. C. McCracken.....	August salary, 1903.....	450	150 00
29	Wm. Stanley.....	August salary 1903.....	451	65 00
29	Wm. Case.....	August salary 1903.....	452	55 00
29	Benj. LeBay.....	August salary 1903.....	453	55 00
29	Thos. Bonde.....	August salary 1903.....	454	50 00
29	George R. Rose.....	August salary 1903.....	455	75 00
29	Earl Kimmel.....	August salary 1903.....	456	25 00
29	Chas. Hicks.....	August salary 1903.....	457	45 00
29	Earl Conway.....	August salary 1903.....	458	25 00
29	G. A. Goodspeed.....	August salary 1903.....	459	40 00
29	John Brown.....	August salary 1903.....	460	15 00
29	John Brown.....	August salary 1903.....	461	25 00
29	W. R. Thomas.....	August salary 1903.....	462	40 00
29	Wm. Whitestein.....	August salary 1903.....	463	40 00
29	Harry Chantler.....	August salary 1903.....	464	40 00
29	Wash Townsel.....	August salary 1903.....	465	20 00
29	Frances Andrix.....	August salary 1903.....	466	30 00
29	G. C. Denny.....	August salary 1903.....	467	40 00
29	M. N. Cook.....	August salary 1903.....	468	40 00
29	H. M. Templin.....	August salary 1903.....	469	40 00
29	John W. Brown.....	August salary 1903.....	470	40 00
29	R. M. Martin.....	August salary 1903.....	471	20 00
29	T. E. Osborn.....	August salary 1903.....	472	45 00
29	John Ricketts.....	August salary 1903.....	473	45 00
29	James Kelley.....	August salary 1903.....	474	30 00
29	J. P. Covan.....	August salary 1903.....	475	83 33

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Aug. 29	A. F. Hall.....	August salary 1903.....	476	73 33
29	Laurel L. Hill.....	August salary 1903.....	477	40 00
29	W. C. Mills.....	August salary 1903.....	478	40 00
29	Pearl Contellier.....	August salary 1903.....	479	10 00
29	Jas. McOwen.....	August salary 1903.....	480	40 00
29	V. H. Davis.....	August salary 1903.....	481	83 33
29	Florence Price.....	August salary 1903.....	482	40 00
29	R. M. Royer.....	August salary 1903.....	483	70 00
29	L. W. Funk.....	August salary 1903.....	484	60 00
25	E. H. Stafford & Bros.	August salary 1903.....	485	169 75
25	Western Union Tel. Co	Telegrams.....	486	6 86
25	R. M. Rownd.....	Envelopes.....	487	42 80
27	Alexis Cope.....	September salary 1903.....	488	187 50
29	R. W. Roberts.....	Labor.....	489	23 60
29	Lilian Huffman.....	Labor.....	490	22 20
Sept. 2	Alex Argo.....	Herdsmen.....	491	60 00
2	Jos. N. Bradford.....	Architect.....	492	500 00
2	H. L. Bostater.....	Labor.....	493	49 50
2	H. L. Beach.....	Labor.....	494	13 50
2	F. E. Bentler.....	Student labor.....	495	54 00
2	C. M. Beem.....	Labor.....	496	41 60
2	J. R. Clements.....	Labor.....	497	23 40
2	W. L. Davies.....	Laying out conduit.....	498	5 00
2	F. E. Fleischer.....	Labor.....	499	16 65
2	W. R. Fleischer.....	Labor.....	500	6 66
2	Thos. E. French.....	Platinum.....	501	40 50
2	R. M. Rownd.....	Stamps.....	502	10 00
2	W. D. Griffith.....	Labor.....	503	50 80
4	C. W. Johnson.....	Shoes.....	504	2 30
2	Blain Gallaway.....	Labor.....	505	12 50
2	E. M. Gorrell.....	Labor.....	506	30 90
2	John Graft.....	Labor.....	507	46 50
2	D. L. Hurst.....	Labor.....	508	31 18
2	E. W. Harrington.....	Labor.....	509	15 04
2	W. A. Kellerman.....	Labor.....	510	9 85
2	Samuel Lowery.....	Labor.....	511	20 80
2	John R. Montgomery.....	Guide.....	512	24 50
2	Clyde Morton.....	Labor.....	513	34 35
2	G. G. Moler.....	Labor.....	514	3 00
2	Harvey C. Moist.....	Labor.....	515	12 00
2	Herbert Osborn.....	Expenses.....	516	4 60
2	Morse F. Osborn.....	Labor.....	517	30 00
2	Marion Peck.....	Labor.....	518	47 25
2	Roy Pratt.....	Labor.....	519	43 20
2	J. H. Randall.....	Labor.....	520	72 80
2	Thomas Swank.....	Carpenter work.....	521	72 80
2	John A. Schneider.....	Carpenter work.....	522	58 80
2	James Stainbrook.....	Labor.....	523	33 40
2	J. R. Thomas.....	Labor.....	524	12 45
2	J. R. Woods.....	Labor.....	525	23 20
2	Mildred Waters.....	Labor.....	526	9 75
2	W. A. Yeagle.....	Labor.....	527	22 50
3	American Bridge Co....	Chan. and plate.....	528	21 75
3	D. L. Auld.....	Repairing.....	529	10 00
3	Bowden Towel Supply Co.....	Towels.....	530	28 46
3	H. Brann Sons Co.....	Supplies.....	531	941 71
3	Blackwood, Green & Co.....	Repairs.....	532	109 98
3	David C. Begg Co.....	Repairs.....	533	214 93

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Sept.	3 Brust & Bauch.....	Resetting steps.....	534	134 90
	3 Bucher Engr. & Mfg. Co.....	Half-tones.....	535	2 59
	3 Columbus Supply Co....	Supplies.....	536	99 03
	3 Columbus Sewer Pipe Co.....	Pipe, sand and cement.....	537	36 01
	3 Champlin Prtg. Co.....	Cards.....	538	71 20
	3 Columbus M. & M. Sup- ply Co.....	Pipe, valves, etc.....	539	126 94
	3 Central Ohio Paper Co..	Paper.....	540	3 00
	3 Capital City Machine Works.....	Supplies.....	541	54 58
	3 Central Ohio Oil Co....	Gasoline.....	542	3 13
	3 Columbus Mdse. Co....	G. R. Sax.....	543	5 00
	3 Columbus Iron & Steel Co.....	Fire brick.....	544	11 39
	3 Columbus Gas Co.....	Coke.....	545	8 00
	3 Columbus Hdw. Co.....	Pulleys and screws.....	546	1 83
	3 John D. Cochran.....	Shade rollers.....	547	2 95
	3 E. A. Cole & Co.....	Coal.....	548	27 13
	3 Dunn, Taft & Co.....	Canton.....	549	1 88
	3 Erner Hopkins Co.....	Electric supplies.....	550	201 78
	3 Electric Supply & Con- struction Co.....	Straps and locknuts.....	551	5 57
	3 Federa Mfg Co.....	Supplies.....	552	1 60
	3 Green, Joyce & Co.....	Ribbon.....	553	17 55
	3 J. J. Gheen.....	Plastering.....	554	4 50
	3 Fred J. Heer.....	Bulletin.....	555	22 00
	3 Hann & Adair.....	Cards and paper.....	556	10 29
	3 Kelton & Converse.....	Lumber.....	557	29 80
	3 W T Kull.....	Mantels.....	558	2 00
	3 Kauffman-Lattimer... Co.....	Supplies.....	559	437 13
	3 Murray City Coal Co..	Coal.....	560	570 40
	3 Monypeny-Hammond. Co.....	Fly paper, matches.....	561	5 55
	3 W. H. Miller Co.....	Pipe and wrench.....	562	262 65
	3 Nitschke Bros.....	Envelopes and books.....	563	95 85
	3 Orr Brown & Price....	Supplies.....	564	142 23
	3 Payne, McDonald Hdw Co.....	Supplies.....	565	20 88
	3 Spahr & Glenn.....	Printing.....	566	52 50
	3 Schoedinger, Fearn & Co.....	Supplies.....	567	29 46
	3 Spahr & Glenn.....	Letterheads.....	568	10 50
	3 Tallmadge Hdw. Co....	Supplies.....	569	4 23
	3 Underwood Typew- riter Co.....	Typewriter.....	570	70 00
	3 Buckeye Transfer & Storage Co.....	Freight and hauling.....	571	70 60
	3 Water Dept.....	Connections.....	572	32 00
	3 Engelke & Bigelow....	Freight and cartage.....	573	125 43
	3 American Reflector & Light Co.....	Supplies.....	574	38 14
	3 Bowmont Farnes.....	Boar pig.....	575	16 00
	3 J. Bishop & Co.....	Plat.....	576	40 53
	3 Bausch & Lomb Op- tical Co.....	Supplies.....	577	1,295 08
	3 Brohl & Appell.....	Plumbing.....	578	556 58
	3 Babcock & Wilcox Co..	Tubing.....	579	5 68

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Sept. 3	Bourne & Knowles Mfg. Co.	Caskets	580	8 49
3	Jas. B. Clow & Sons	Drills, etc.	581	80 08
3	Central Electric Co.	Supplies	582	63 36
3	Dust-proof Floor Dressing Co.	Dressing	583	49 28
3	Donahue Hdw. Co.	Hardware	584	14 68
3	Julien P. Friez	Thermometer	585	3 25
3	General Electric Co.	Meter	586	109 01
3	Wm. Gaertner & Co.	Name plate	587	1 00
3	Jersey Bulletin Co.	Half tones	588	5 00
3	Jareckin Mfg. Co.	Gold	589	9 00
3	Library Bureau	Cards	590	6 00
3	I. F. Mack & Bro.	Printing Etc.	591	10 90
3	Carl L. Osberg	Supplies	592	6 45
3	A. I. Root Co.	Supplies	593	9 30
3	Scientific Material Co.	Platinum	594	189 99
3	Springfield Pub. Co.	Cover and press work	595	99 53
3	Sandusky's Big Store	Supplies	596	13 03
3	Henry Troemner	Weights	597	22 70
3	Univ. of Chicago Press	American Jour. Sociol.	598	2 00
3	Whitall Tattum Co.	Tubes	599	46 48
3	Watertown Eng. Co.	Wrench	600	2 00
3	Yale & Towne Mfg. Co.	Keys	601	9 61
3	Murphy Iron Works	Arch brick	602	76 00
3	Frank Keyes	Labor	603	14 60
3	D. M. Massie	Expenses	604	60 34
3	D. W. McGrath	Est. and Chem.	605	993 70
3	D. W. McGrath	Est. No. 6 Engr.	606	11,020 00
4	D. W. McGrath	Extras Chem.	607	236 50
4	Jas. Westwater & Co.	Est. No. 8	608	1,567 50
4	Jas. Westwater & Co.	Extras No. 2	609	190 00
4	Hayden (Clinton Nat'l Bank	Rents and profits Page lds.	610	11,702 52
4	Ohio National Bank	Rents and profits Page lds.	611	10,000 00
4	Merchants & Manufacturers Nat'l Bank	Rents and profits Page lds.	612	10,000 00
4	Madden Darrah W. P. Co.	Papering, etc.	613	347 85
4	W. C. McCracken	Labor	614	47 95
4	F. G. Green	Work on campus	615	26 40
8	Wm. E. Larzelere	Labor	616	1 95
8	O. E. Jennings	July and August salary	617	100 00
9	Carl E. Steeb	September salary 1903	618	83 33
9	Columbus Gas Co.	August gas	619	70 80
9	C. U. Telephone Co.	Phone rentals and tolls	620	12 90
9	Harry T. Hance	Water analysis	621	69 00
12	Geo. W. Knight	Maps	622	1 00
12	J. A. Thomas	Labor	623	8 80
24	W. O. Thompson	September salary 1903	624	416 67
25	K. H. Duncan	September salary 1903	625	66 66
25	Edith D. Cockins	September salary 1903	626	66 66
25	Edith R. Hubler	September salary 1903	627	40 00
25	Minnie Hines	September salary 1903	628	40 00
25	Gertrude Bellows	September salary 1903	629	40 00
25	W. C. McCracken	September salary 1903	630	150 00
25	W. Standley	September salary 1903	631	65 00
25	Wm. Case	September salary 1903	632	55 00
25	Benj. LeBay	September salary 1903	633	55 00
25	Thos. Bonde	September salary 1903	634	50 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Sept. 25	James Stainbrook.....	September salary 1903.....	635	50 00
25	Marion Peck.....	September salary 1903.....	636	45 00
25	George Rose.....	September salary 1903.....	637	75 00
25	Earl Kimmel.....	September salary 1903.....	638	25 00
25	Chas. Hicks.....	September salary 1903.....	639	45 00
25	Earl Conway.....	September salary 1903.....	640	25 00
25	G. A. Goodspeed.....	September salary 1903.....	641	40 00
25	John Brown.....	September salary 1903.....	642	15 00
25	John Brown.....	September salary 1903.....	643	25 00
25	W. R. Thomas.....	September salary 1903.....	644	40 00
25	Wm. Whitestein.....	September salary 1903.....	645	40 00
25	Harry Chantler.....	September salary 1903.....	646	40 00
25	Wash Townsel.....	September salary 1903.....	647	20 00
25	Francis Andrix.....	September salary 1903.....	648	30 00
25	Geo. C. Denny.....	September salary 1903.....	649	40 00
25	M. N. Cook.....	September salary 1903.....	650	40 00
25	H. M. Templin.....	September salary 1903.....	651	40 00
25	J. W. Brown.....	September salary 1903.....	652	40 00
25	R. M. Martin.....	September salary 1903.....	653	20 00
25	T. E. Osburn.....	September salary 1903.....	654	45 00
25	John Ricketts.....	September salary 1903.....	655	45 00
25	James Kelley.....	September salary 1903.....	656	30 00
25	M. S. Harvey.....	September salary 1903.....	657	25 00
25	C. H. Woodruff.....	September salary 1903.....	658	70 00
25	J. P. Covan.....	September salary 1903.....	659	83 33
25	A. F. Hall.....	September salary 1903.....	660	73 33
25	Homer C. Price.....	September salary 1903.....	661	225 00
25	J. W. Decker.....	September salary 1903.....	662	170 00
25	Chas. Plumb.....	September salary 1903.....	663	200 00
25	Frank Rublen.....	September salary 1903.....	664	90 00
25	M. F. Miller.....	September salary 1903.....	665	100 00
25	Laurel L. Hill.....	September salary 1903.....	666	40 00
23	H. A. Weber.....	September salary 1903.....	667	225 00
25	Alfred Vivian.....	September salary 1903.....	668	150 00
25	Rudolph Hirsch.....	September salary 1903.....	669	60 00
25	Geo. W. Knight.....	September salary 1903.....	670	250 00
25	A. H. Tuttle.....	September salary 1903.....	671	120 00
25	A. M. Bleile.....	September salary 1903.....	672	225 00
25	M. Dresbach.....	September salary 1903.....	673	80 00
25	W. C. Mills.....	September salary 1903.....	674	40 00
25	Pearl Contellier.....	September salary 1903.....	675	10 00
25	J. N. Bradford.....	September salary 1903.....	676	210 00
25	T. E. French.....	September salary 1903.....	677	150 00
25	Thos. K. Lewis.....	September salary 1903.....	678	100 00
25	Silas Martin.....	September salary 1903.....	679	100 00
25	J. H. Vosskuehler.....	September salary 1903.....	680	120 00
25	J. S. Tidball.....	September salary 1903.....	681	80 00
25	H. C. Lord.....	September salary 1903.....	682	225 00
25	B. F. Maag.....	September salary 1903.....	683	100 00
25	Chas. B. Morrey.....	September salary 1903.....	684	140 00
25	W. A. Kellerman.....	September salary 1903.....	685	225 00
25	J. H. Shaffner.....	September salary 1903.....	686	130 00
25	O. E. Jennings.....	September salary 1903.....	687	50 00
25	Harlan H. York.....	September salary 1903.....	688	25 00
25	Jas. McOwen.....	September salary 1903.....	689	40 00
25	S. A. Norton.....	September salary 1903.....	690	125 00
25	Wm. McPherson.....	September salary 1903.....	691	225 00
25	W. E. Henderson.....	September salary 1903.....	692	140 00
26	C. W. Foulk.....	September salary 1903.....	693	120 00
26	M. Mumma.....	September salary 1903.....	694	70 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Sept. 26	E. N. Webb.....	September salary 1903.....	695	60 00
25	Catherine Andrews....	September salary 1903.....	696	60 00
25	C. E. Sherrnan.....	September salary 1903.....	697	180 00
25	A. H. Heller.....	September salary 1903.....	698	180 00
25	Frank Eno.....	September salary 1903.....	699	150 00
25	H. D. Brunning.....	September salary 1903.....	700	125 00
25	W. L. Davies.....	September salary 1903.....	701	60 00
25	Edw. Orton, Jr.....	September salary 1903.....	702	200 00
25	A. V. Bleminger.....	September salary 1903.....	703	100 00
25	M. A. Stoner.....	September salary 1903.....	704	180 00
25	C. P. Souther.....	September salary 1903.....	705	120 00
25	Edw. Orton, Jr.....	October salary 1903.....	706	200 00
25	J. E. Hagerty.....	September salary 1903.....	707	120 00
25	C. C. Huntington.....	September salary 1903.....	708	30 00
26	D. R. Major.....	September salary 1903.....	709	160 00
29	T. H. Haines.....	September salary 1903.....	710	130 00
25	W. W. Boyd.....	September salary 1903.....	711	200 00
25	F. C. Caldwell.....	September salary 1903.....	712	190 00
25	F. A. Fish.....	September salary 1903.....	713	110 00
25	A. C. Barrows.....	September salary 1903.....	714	225 00
25	J. R. Taylor.....	September salary 1903.....	715	150 00
27	W. H. Seibert.....	September salary 1903.....	716	180 00
24	E. H. McNeal.....	September salary 1903.....	717	100 00
25	C. S. Prosser.....	September salary 1903.....	718	190 00
25	J. A. Bownocker.....	September salary 1903.....	719	160 00
25	L. A. Rhoades.....	September salary 1903.....	720	225 00
25	C. W. Mesloh.....	September salary 1903.....	721	160 00
25	B. A. Eisenlohr.....	September salary 1903.....	722	80 00
25	Sarah Barrows.....	September salary 1903.....	723	40 00
25	J. R. Smith.....	September salary 1903.....	724	225 00
25	A. W. Hodgman.....	September salary 1903.....	725	160 00
25	W. S. Elden.....	September salary 1903.....	726	160 00
25	W. R. Lazenby.....	September salary 1903.....	727	225 00
25	V. H. Davis.....	September salary 1903.....	728	83 33
25	F. E. Sanborn.....	September salary 1903.....	729	200 00
25	W. A. Knight.....	September salary 1903.....	730	120 00
25	W. H. Rench.....	September salary 1903.....	731	100 00
25	C. P. Crowe.....	September salary 1903.....	732	100 00
25	Allando Case.....	September salary 1903.....	733	60 00
25	S. C. Derby.....	September salary 1903.....	734	225 00
25	W. F. Hunter.....	September salary 1903.....	735	250 00
25	W. H. Page.....	September salary 1903.....	736	200 00
25	E. B. Kinkead.....	September salary 1903.....	737	130 00
25	John A. Shauck.....	September salary 1903.....	738	100 00
25	Olive Jones.....	September salary 1903.....	739	145 00
25	E. O. Randall.....	September salary 1903.....	740	80 00
25	Florence Price.....	September salary 1903.....	741	40 00
25	Harriet Townshend....	September salary 1903.....	742	60 00
25	Gertrude Kellicott....	September salary 1903.....	743	70 00
25	Maude Jeffrey.....	September salary 1903.....	744	70 00
25	Martha Hartford.....	September salary 1903.....	745	40 00
25	Elizabeth Smythe.....	September salary 1903.....	746	40 00
25	Max D. Morton.....	September salary 1903.....	747	30 00
25	R. D. Bohannon.....	September salary 1903.....	748	225 00
25	G. W. McCoard.....	September salary 1903.....	749	160 00
25	J. E. Boyd.....	September salary 1903.....	750	150 00
28	K. D. Swartzel.....	September salary 1903.....	751	150 00
28	H. W. Kuhn.....	September salary 1903.....	752	110 00
28	S. E. Raser.....	September salary 1903.....	753	100 00
28	E. F. Coddington.....	September salary 1903.....	754	110 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Sept. 28	W. T. Magruder.....	September salary 1903.....	755	225 00
28	E. A. Hitchcock.....	September salary 1903.....	756	175 00
28	Horace Judd.....	September salary 1903.....	757	120 00
28	N. W. Lord.....	September salary 1903.....	758	200 00
28	E. E. Sommermeier.....	September salary 1903.....	759	110 00
28	Gustav Bruder.....	September salary 1903.....	760	20 00
28	F. A. Ray.....	September salary 1903.....	761	200 00
Oct. 2	Geo. B. Kauffman....	September salary 1903.....	762	200 00
Sept. 26	C. A. Dye.....	September salary 1903.....	763	110 00
25	W. H. Scott.....	September salary 1903.....	764	225 00
25	A. E. Davies.....	September salary 1903.....	765	90 00
25	C. P. Linhart.....	September salary 1903.....	766	160 00
25	D. C. Huddleson.....	September salary 1903.....	767	80 00
25	B. F. Thomas.....	September salary 1903.....	768	225 00
25	A. D. Cole.....	September salary 1903.....	769	200 00
25	L. B. Tuckerman.....	September salary 1903.....	770	70 00
26	J. V. Denny.....	September salary 1903.....	771	250 00
26	W. L. Graves.....	September salary 1903.....	772	130 00
24	G. K. McKnight.....	September salary 1903.....	773	130 00
29	Mary A. Malloy.....	September salary 1903.....	774	30 00
25	B. L. Bowen.....	September salary 1903.....	775	225 00
25	C. A. Bruce.....	September salary 1903.....	776	150 00
25	E. S. Ingraham.....	September salary 1903.....	777	120 00
25	Hermine de Nagy.....	September salary 1903.....	778	30 00
25	D. S. White.....	September salary 1903.....	779	200 00
26	S. Sisson.....	September salary 1903.....	780	170 00
25	O. V. Brumley.....	September salary 1903.....	781	100 00
25	D. H. Udall.....	September salary 1903.....	782	145 00
25	R. M. Royer.....	September salary 1903.....	783	70 00
25	Lee W. Funk.....	September salary 1903.....	784	60 00
25	Herbert Osborn.....	September salary 1903.....	785	225 00
25	J. S. Hine.....	September salary 1903.....	786	120 00
28	F. L. Landacre.....	September salary 1903.....	787	120 00
25	Max Morse.....	September salary 1903.....	788	30 00
Oct. 2	J. G. Sanders.....	September salary 1903.....	789	25 00
30	Roy Pratt.....	Labor.....	790	20 00
Sept. 25	Richard Brandon.....	September salary 1903.....	791	13 33
26	Andrew Ruddell.....	September salary 1903.....	792	20 00
25	C. M. Beem.....	September salary 1903.....	793	20 00
25	W. E. Cook.....	September salary 1903.....	794	20 00
25	E. F. Mangold.....	September salary 1903.....	795	50 00
25	Gilbert Pennock.....	September salary 1903.....	796	30 00
28	Nernst Lamp Co.....	Lamps and holders.....	797	1,034 62
28	F. J. Muirie.....	September salary 1903.....	798	30 00
28	J. A. Wilkinson.....	September salary 1903.....	799	30 00
28	Columbus Railway Co.	Tickets.....	800	5 00
Oct. 2	H. H. Hamilton.....	September salary.....	801	12 50
30	R. M. Rownd, P. M....	Stamps.....	802	8 00
29	Cora Elliott.....	September salary.....	803	25 00
30	R. M. Rownd, P. M....	Stamps.....	804	15 50
Oct. 1	R. M. Rownd, P. M....	Stamped envelopes.....	805	10 70
1	W. R. Judson.....	Salary.....	806	60 00
1	R. F. Earhart.....	Salary.....	807	100 00
1	Lily Weeks.....	Salary 15 days.....	808	15 00
1	F. E. Bentler.....	September salary.....	809	12 50
2	B. F. Dragoo.....	September salary.....	810	18 00
2	Henry R. Spencer.....	September salary.....	811	110 00
2	R. J. Seymour.....	September salary.....	812	25 00
2	J. A. Beer.....	September salary.....	813	25 00
2	Lucian Shaw.....	September salary.....	814	30 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Oct.	2 C. G. Stewart.....	September salary.....	815	30 00
	2 W. W. Willer.....	September salary.....	816	50 00
	2 G. W. Rightmire.....	September salary.....	817	50 00
	2 G. A. Spitler.....	September salary.....	818	30 00
	2 T. B. Simon.....	September salary.....	819	30 00
	2 Maud W. Martin.....	September salary.....	820	80 00
	2 Alma H. Walker.....	September salary.....	821	7 50
	2 J. G. Sanders.....	October salary.....	822	25 00
	2 Madden Darrah W. P. Co.....	Chapel.....	823	308 75
	2 Helen Lambdin.....	September salary.....	824	11 00
	2 D. W. McGrath.....	Est. No. 7, Engr. bldg.....	825	8,075 00
	2 Alex Argo.....	Herdsmen.....	826	60 00
	2 Western Union Telegraph Co.....	Telegrams September.....	827	10 23
	3 Alexis Cope.....	October salary.....	828	187 50
	3 Carl E. Steeb.....	October salary.....	829	83 33
	3 John T. Mack.....	Expense trustee.....	830	20 10
	5 W. W. Hyde.....	Drawing.....	831	2 00
	6 H. W. Kuhn.....	Printing.....	832	4 50
	8 Dick Ashenhurst.....	Labor.....	833	3 20
	8 Jos. N. Bradford.....	Arch. fees.....	834	200 00
	8 H. L. Bostater.....	Labor.....	835	32 29
	8 H. L. Beech.....	Labor.....	836	40 22
	8 Seth B. Bower.....	Hauling water.....	837	3 75
	8 F. E. Bentler.....	Labor.....	838	48 74
	8 Jos. P. Brooks.....	Labor.....	839	1 50
	8 C. M. Beem.....	Labor.....	840	12 80
	8 Alexis Cope.....	Expenses.....	841	5 40
	8 Harry Covan.....	Labor.....	842	32 55
	8 M. H. Churchman.....	Labor.....	843	3 60
	8 John Cernick.....	Labor.....	844	75
	8 Effie Duncan.....	Assistance.....	845	6 25
	8 Grace Eagleson.....	Assistance.....	846	1 75
	8 F. E. Fleischer.....	Campus work.....	847	5 25
	8 L. W. Funk.....	Labor.....	848	1 20
	8 W. D. Griffith.....	Campus work.....	849	31 50
	8 Melle W. Glass.....	Clerical work.....	850	4 00
	8 Blaine Galloway.....	Labor.....	851	11 69
	8 John Graft.....	Labor.....	852	48 00
	8 E. M. Gorrell.....	Labor.....	853	25 64
	8 E. W. Harrington.....	Labor.....	854	34 43
	7 Lilian Huffman.....	Labor.....	855	13 35
	7 D. L. Hurst.....	Campus work.....	856	15 37
	8 C. B. Hoover.....	Labor.....	857	11 55
	8 W. H. Kewish.....	Labor.....	858	17 10
	8 G. W. Knight.....	Expenses.....	859	7 98
	8 Margaret A. Knight.....	Clerical work.....	860	4 87
	8 W. A. Kellerman.....	Expense.....	861	2 09
	8 Samuel Lowery.....	Labor.....	862	41 60
	8 W. T. Magruder.....	Tables.....	863	283 00
	8 James Morrison.....	Labor.....	864	17 25
	8 H. C. Moist.....	Labor.....	865	16 31
	8 J. R. Montgomery.....	Guide work.....	866	17 00
	8 J. G. Mendonca.....	Guide work.....	867	3 00
	8 Clara G. Mark.....	Labor.....	868	11 00
	8 R. M. Martin.....	Pattern making.....	869	5 25
	8 Ohio Naturalist.....	Advertising.....	870	35 00
	8 Chas. S. Plumb.....	Expenses.....	871	14 40
	8 Helen Powell.....	Clerical work.....	872	5 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Oct. 8	Roy Pratt.....	Labor.....	873	22 40
8	Chas. Pixler.....	Labor.....	874	9 60
8	Evelyn Rodocker.....	Clerical work.....	875	16 80
8	Chas Reader.....	Labor.....	876	23 63
8	J. A. Randall.....	Carpenter work.....	877	70 00
8	Eliza Saunders.....	Labor.....	878	4 00
8	M A Stoner.....	Cash advanced.....	879	6 00
8	J R. Thomas.....	Labor.....	880	6 00
8	W. Whitestein.....	Baskets.....	881	3 96
8	T L. Wheeler.....	Labor.....	882	10 12
8	George Washburn.....	Labor.....	883	22 88
8	W. A. Yeagle.....	Labor.....	884	12 22
8	Thomas Swank.....	Carpenter work.....	885	70 00
10	John A. Schneider.....	Carpenter work.....	886	68 60
10	American Machine Co.....	Ribbons and yards.....	887	2 25
10	Aerne Paving Co.....	Repairing walk.....	888	28 56
10	Am. Dis. Tel. Co.....	Rent boxes.....	889	114 00
10	American Bridge Co.....	Beams, channels, angles.....	890	137 75
10	Bott Bros. Mfg. Co.....	Mats.....	891	24 00
10	W. Burdell, Jr.....	Sweat pads, brushes.....	892	5 60
10	David C. Begg Co.....	Shade rollers.....	893	4 20
10	Buckeye Brass Fdry.....	Castings.....	894	22 88
10	Buckeye Transfer & W. Co.....	Freight and hauling.....	895	13 15
10	Blackwood, Green & Co.....	Ladders, boxes, etc.....	896	29 88
10	Columbus Transfer Co.....	Bus rent.....	897	5 00
10	Columbus Supply Co.....	Pipe, etc.....	898	39 63
10	Columbus M. & M. Supply Co.....	Pipe, etc.....	899	153 27
10	Columbus Sewer Pipe Co.....	Pipe sand and cement.....	900	68 22
10	Geo. D. Cross Lumber Co.....	Lumber.....	901	214 42
10	Champlin Ptg. Co.....	Printing.....	902	210 35
10	Columbus Photo. Supply Co.....	Seeds.....	903	2 37
10	Capital City Machine Works.....	Supplies.....	904	20 22
10	Columbus Pure Milk Co.....	Milk and butter.....	905	7 74
10	Cherington P. & E. Co.....	Stamp.....	906	2 25
10	Columbus Hdw. Co.....	Clamp, bolts, etc.....	907	7 33
10	Columbus Bolt Wks.....	Washers.....	908	4 36
10	Columbus Slate Co.....	Slate.....	909	10 20
10	Col'bus Macadam Co.....	Screenings.....	910	16 80
10	Columbus Brass Co.....	Combination.....	911	16 50
10	Central Ohio Paper Co.....	Paper.....	912	4 68
10	Columbus Steam Boiler & Hdw. Co.....	Smoke breeching.....	913	60 00
10	E. A. Cole & Co.....	Coal.....	914	37 32
10	Columbus Heat and Vent. Co.....	Furnace repairs.....	915	22 00
10	W. C. Davidson & Co.....	Oats and transfer.....	916	29 73
10	Engelke & Bigelow.....	Freight and cartage.....	917	149 48
10	Erner & Hopkins.....	Repairs.....	918	101 63
10	Fred J. Heer.....	Cards, etc.....	919	9 25
10	F. G. & A. Howald.....	Stools and cases.....	920	135 00
10	E. G. Norton.....	Analysis water.....	921	50 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
10	Hann & Ada'r.....	Schedules, placards, etc.....	922	8 09
10	Jas. Kearney.....	Drilling well.....	923	140 00
10	Krauss, Butler & Benham.....	Carpet.....	924	73 76
10	Kelton & Converse....	Lumber.....	925	118 51
10	J. A. Luff.....	Willow hampers.....	926	7 00
10	Oscar S. Lear.....	Neostyle.....	927	18 00
10	McClelland & Co.....	Rubber bands.....	928	2 25
10	McDonald Bros.....	Cistern cover.....	929	4 50
10	McCoy & Skinner.....	Pans.....	930	16 10
10	Murray City Coal Co....	Coal.....	931	134 47
10	Nitschke Bros.....	Supplies.....	932	19 94
10	Orr Brown & Price.....	Ammonia, etc.....	933	4 78
10	C. T. Phillips.....	Papering.....	934	24 45
10	Chas. J. Palmer.....	Galvanized iron, etc.....	935	287 43
10	Jas. Penn.....	Feed and hauling.....	936	27 22
10	Payne & McDonald....	Churn.....	937	4 00
10	Reeves Bros.....	Hasps.....	938	41 39
10	Ruggles-Gale Co.....	Books, etc.....	939	14 70
10	Rood Lumber Co.....	Trays.....	940	12 50
10	M. P. Street.....	Labor and material.....	941	335 15
10	M. P. Street.....	Esf. No. 1 tunnel.....	942	1,185 00
10	Schoedinger, Fearn & Co.....	Supplies.....	943	25 37
10	A. H. Smythe.....	Supplies.....	944	1 87
10	Spahr & Glenn.....	Printing.....	945	60 95
10	Tallmadge Hdw. Co....	Nails, screws, etc.....	946	23 25
10	F. L. White & Co.....	Cheese cloth.....	947	4 74
10	C. H. Williams.....	Binding.....	948	9 25
10	J. M. & W. Westwater	Lights.....	949	4 25
10	P. F. Yoerger.....	Muslin sign.....	950	1 75
10	Fauer & Bloser Co....	Engross resolution.....	951	15 00
10	Am. Berkshire Ass'n..	Records.....	952	2 00
10	Am. Ceramic Society..	Book.....	953	7 00
10	Am. Electro-Chem. Society.....	Transactions.....	954	2 00
10	W. H. Anderson Co....	Books.....	955	390 00
10	American Journal Physiology.....	Proceedings.....	956	10 00
10	Am. Grange Bulletin..	Advertising.....	957	8 40
10	The Burrows Bros. Co.	Books.....	958	147 24
10	Thos. Buchanan & Co.	Wheel.....	959	76
10	Bamnan & Son.....	Signs.....	960	5 00
10	Betosking Pack. & Supply Co.....	Packing.....	961	29 23
10	D. H. Burrell & Co....	Supplies.....	962	93 34
10	John S. Bushnell & Co.....	Planimeter, etc.....	963	34 00
10	Crucible Steel Co.....	Steel.....	964	97 48
10	Central Electric Co....	Windlasses, gongs, etc.....	965	57 86
10	The Caxton Co.....	Blackboard.....	966	10 96
10	A. J. Decker.....	Supplies.....	967	6 45
10	Dairymen's Supply Co.	Bottle washer.....	968	35 00
10	D. & W. Fuse Co.....	Fuses.....	969	38 74
10	Emp. Cream Separ. Co.	Repairing.....	970	2 25
10	Eimer & Amend.....	Supplies.....	971	391 36
10	Electric Wheel Co.....	Wagon.....	972	33 65
10	Engr. and Mining Jour.	Advertising.....	973	16 58
10	Flint & Walling Mfg. Co.....	Tank and heaters.....	974	30 75

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
10	H. L. Fishback & Co.	Lamps	975	4 50
10	Chas. Fischer	Hauling	976	5 00
10	Fostoria Lamp Co.	Lamp	977	115 00
10	C. L. Gerlaugh	Feed	978	18 75
10	B. F. Goodrich Co.	Mats and treads	979	39 13
10	W. A. Graham Drug Store	Chemicals	980	45
10	Garlock Packing Co.	Spec. Hydraulic	981	10 24
10	J. L. Holcomb Mfg. Co. .	Dusters, etc.	982	41 25
10	W. R. Harrison & Co. .	Supplies	983	1 40
10	U. T. Hungerford Br. & C. Co.	Brass	984	38 68
10	Internat'l Text Book Co.	Subscription	985	2 00
10	O. M. U. Y. M. C. A. .	Advertising	986	5 00
10	Jones & Laughlin Steel Co.	Steel	987	42 90
10	H. W. Jones Manville Co.	Contact and fuses	988	3 31
10	Knauth Nachod & Kuehne	Account O. Hanassowitz	989	3 73
10	Kansas City H a y Press Co.	Bale ties	990	5 55
10	Kuy-Scheerer Co.	Dissections	991	25 00
10	Library Bureau	Equipment, cards, etc.	992	306 00
10	T. H. McAllister	Stereopticon	993	126 00
10	Murphy Iron Works. .	Brasses and pins	994	4 50
10	Masing, Young & Co. .	Oil	995	20 14
10	Imperial Brush Co. .	Brushes	996	112 30
10	Mound Tool & Scrap-er Co.	Tools	997	6 75
10	Nicholson File Co. .	Files and cards	998	6 25
10	Norton Emery Wheel Co.	Emery Wheel	999	6 33
10	D. M. Osborn & Co. .	Repairs	1000	1 40
10	S. Obermayer Co.	Supplies	1001	19 35
10	Post. Glover Elect. Co. .	Shades, etc.	1002	125 20
10	C. J. Rumsey & Co. .	Sheets	1003	3 00
10	Richmond Chair Co. .	Chairs	1004	742 50
10	Star Milk Cooler Co. .	Basket	1005	75
10	Silver Mfg. Co.	Cutter	1006	11 96
10	Smithsonian Institute.	Publication	1007	14 20
10	Sanvens & Whiting. .	Microscope	1008	227 20
10	Standard U n d e r g r. Cable Co.	Cable	1009	394 70
10	Stillwell-B i e r c e & Smith-Vale Co.	Packing, etc.	1010	6 75
10	G. E. Stechert	Books	1011	175 45
10	Henry Troemer	Scales and weights	1012	29 04
10	Edward Thompson Co .	Am. Ency. Law	1013	6 00
10	H. W. Wilson Co.	Index	1014	6 00
10	Yawman & Erbe Mfg. Co.	Cases	1015	59 25
10	Zanesville Stonewater Co.	Guards	1016	10 00
10	Ohio Nat'l Bank	Exchange on London	1017	779 80
10	R. M. Rownd, P. M. .	Envelopes	1018	10 70
10	F. B. Toothaker	Printing	1019	93 00
10	Nernst Lamp Co.	Lamps	1020	10 00
15	Columbus Gas Co.	September Gas	1021	78 68

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
15	W. U. Telegraph Co.	Telegrams.....	1022	5 20
15	R. M. Rownd, P. M.	Postage deposit.....	1023	25 00
15	C. U. Telephone Co.	Phone rentals.....	1024	10 00
15	Citizens Telephone Co.	Oct., Dec., phone rentals....	1025	140 55
15	Jerry Clements.....	Labor.....	1026	1 42
17	Norman Slee.....	September salary 1903.....	1027	10 00
17	Chas. Lewis.....	September salary 1903.....	1028	10 00
17	Alexis Cope.....	November salary 1903.....	1029	187 50
20	T. E. French.....	October salary 1903.....	1030	150 00
21	D. R. Major.....	October salary 1903.....	1031	160 00
23	J. R. Taylor.....	October salary 1903.....	1032	150 00
23	W. O. Thompson.....	October salary 1903.....	1033	416 67
23	W. E. Davis.....	September salary 1903.....	1034	30 00
23	Wash. Townsell.....	October salary 1903.....	1035	20 00
23	J. V. Denny.....	October salary 1903.....	1036	250 00
26	H. R. Templin.....	October salary 1903.....	1037	40 00
26	R. M. Rownd, P. M.	Envelopes.....	1038	42 80
27	W. C. McCracken.....	October salary 1903.....	1039	150 00
27	R. M. Rownd, P. M.	Postage.....	1040	84 00
27	Columbus Water Wks.	Water rentals to Oct. 1903..	1041	1,326 33
27	U. S. Telephone Co.	Toll to Sandusky.....	1042	60
31	K. H. Duncan.....	October salary 1903.....	1043	66 66
31	Edith D. Cockins.....	October salary 1903.....	1044	66 66
27	Edith R. Hubler.....	October salary 1903.....	1045	40 00
27	Minnie Hines.....	October salary 1903.....	1046	40 00
31	Gertrude Bellows.....	October salary 1903.....	1047	40 00
31	W. Standley.....	October salary 1903.....	1048	65 00
31	W. Case.....	October salary 1903.....	1049	55 00
31	Benj. LeBay.....	October salary 1903.....	1050	55 00
31	Thos. Bonde.....	October salary 1903.....	1051	50 00
31	Roy Pratt.....	October salary 1903.....	1052	50 00
31	Jas. Stainbrook.....	October salary 1903.....	1053	50 00
31	Marion Peck.....	October salary 1903.....	1054	45 00
31	Chas. Lewis.....	October salary 1903.....	1055	20 00
31	Norman Slee.....	October salary 1903.....	1056	20 00
31	George Rose.....	October salary 1903.....	1057	75 00
31	Earl Kimmel.....	October salary 1903.....	1058	25 00
31	Chas. Hicks.....	October salary 1903.....	1059	45 00
31	Earl Conway.....	October salary 1903.....	1060	25 00
31	G. A. Goodspeed.....	October salary 1903.....	1061	40 00
31	John Brown.....	October salary 1903.....	1062	25 00
31	John Brown.....	October salary 1903.....	1063	15 00
31	W. R. Thomas.....	October salary 1903.....	1064	40 00
31	Richard Brandon.....	October salary 1903.....	1065	40 00
31	W. Whitestein.....	October salary 1903.....	1066	40 00
31	Harry Chantler.....	October salary 1903.....	1067	40 00
31	Franci Andrix.....	October salary 1903.....	1068	30 00
31	G. C. Denny.....	October salary 1903.....	1069	40 00
31	M. N. Cook.....	October salary 1903.....	1070	40 00
31	Andrew Rudell.....	October salary 1903.....	1071	40 00
31	J. W. Brown.....	October salary 1903.....	1072	40 00
31	C. M. Beem.....	October salary 1903.....	1073	40 00
31	W. E. Cook.....	October salary 1903.....	1074	40 00
31	Chas. Bixler.....	October salary 1903.....	1075	40 00
31	H. H. Hamilton.....	October salary 1903.....	1076	12 50
31	F. E. Bentler.....	October salary 1903.....	1077	12 50
31	B. F. Dragoo.....	October salary 1903.....	1078	18 00
31	R. M. Martin.....	October salary 1903.....	1079	20 00
31	T. E. Osburn.....	October salary 1903.....	1080	45 00
31	John Ricketts.....	October salary 1903.....	1081	45 00
31	James Kelley.....	October salary 1903.....	1082	30 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Oct. 31	M. S. Harvey.....	October salary 1903.....	1083	25 00
31	C. H. Woodruff.....	October salary 1903.....	1084	70 00
31	J. P. Covan.....	October salary 1903.....	1085	83 33
31	A. F. Hall.....	October salary 1903.....	1086	73 33
31	H. C. Price.....	October salary 1903.....	1087	225 00
31	J. W. Decker.....	October salary 1903.....	1088	170 00
31	Chas. S. Plumb.....	October salary 1903.....	1089	200 00
31	F. Ruhlen.....	October salary 1903.....	1090	90 00
31	M. F. Miller.....	October salary 1903.....	1091	100 00
31	E. F. Mangold.....	October salary 1903.....	1092	50 00
31	Laurel L. Hill.....	October salary 1903.....	1093	40 00
31	H A Weber.....	October salary 1903.....	1094	225 00
31	Alfred Vivian.....	October salary 1903.....	1095	150 00
31	Rudolph Hirsch.....	October salary 1903.....	1096	60 00
31	Geo. W. Knight.....	October salary 1903.....	1097	250 00
31	A. H. Tuttle.....	October salary 1903.....	1098	120 00
31	H. R. Spencer.....	October salary 1903.....	1099	110 00
31	A. M. Bleile.....	October salary 1903.....	1100	225 00
31	M. Dresbach.....	October salary 1903.....	1101	80 00
31	R. J. Seymour.....	October salary 1903.....	1102	25 00
31	J. A. Beer.....	October salary 1903.....	1103	25 00
31	W. C. Mills.....	October salary 1903.....	1104	40 00
31	Pearl Contellier.....	October salary 1903.....	1105	10 00
31	Jos. M. Bradford.....	October salary 1903.....	1106	210 00
31	Thos. K. Lewis.....	October salary 1903.....	1107	100 00
31	Silas Martin.....	October salary 1903.....	1108	100 00
31	J. H. Vosskuehler.....	October salary 1903.....	1109	120 00
31	J. T. Tidball.....	October salary 1903.....	1110	80 00
31	Lucian Shaw.....	October salary 1903.....	1111	30 00
31	H. C. Lord.....	October salary 1903.....	1112	225 00
31	B. F. Maag.....	October salary 1903.....	1113	100 00
31	C. B. Morey.....	October salary 1903.....	1114	140 00
31	W. A. Kellerman.....	October salary 1903.....	1115	225 00
31	J. H. Shaffner.....	October salary 1903.....	1116	130 00
31	O. E. Jennings.....	October salary 1903.....	1117	50 00
31	H. H. York.....	October salary 1903.....	1118	25 00
31	Jas. McOwen.....	October salary 1903.....	1119	40 00
31	S. A. Norton.....	October salary 1903.....	1120	125 00
31	W. McPherson.....	October salary 1903.....	1121	225 00
31	W. E. Henderson.....	October salary 1903.....	1122	140 00
31	C. W. Foulk.....	October salary 1903.....	1123	120 00
31	M. Mumma.....	October salary 1903.....	1124	70 00
31	E. N. Webb.....	October salary 1903.....	1125	60 00
31	Catherine Andrews.....	October salary 1903.....	1126	60 00
31	J. A. Wilkinson.....	October salary 1903.....	1127	30 00
31	C. G. Stewart.....	October salary 1903.....	1128	30 00
31	C. E. Sherman.....	October salary 1903.....	1129	180 00
31	A. H. Heller.....	October salary 1903.....	1130	180 00
31	Frank Eno.....	October salary 1903.....	1131	150 00
31	H. D. Brining.....	October salary 1903.....	1132	125 00
31	W. L. Davies.....	October salary 1903.....	1133	60 00
31	A. V. Bleininger.....	October salary 1903.....	1134	100 00
31	M. A. Stoner.....	October salary 1903.....	1135	180 00
31	C. P. Souther.....	October salary 1903.....	1136	120 00
31	Cora Elliott.....	October salary 1903.....	1137	25 00
31	J. E. Hagerty.....	October salary 1903.....	1138	120 00
31	C. C. Huntington.....	October salary 1903.....	1139	30 00
31	W. W. Miller.....	October salary 1903.....	1140	50 00
31	T. H. Haines.....	October salary 1903.....	1141	130 00
31	W. W. Boyd.....	October salary 1903.....	1142	200 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Oct. 31	F. C. Caldwell.....	October salary 1903.....	1143	190 00
31	F. A. Fish.....	October salary 1903.....	1144	110 00
31	Helen Lambdin.....	October salary 1903.....	1145	11 00
31	A. C. Barrows.....	October salary 1903.....	1146	225 00
31	W. H. Siebert.....	October salary 1903.....	1147	180 00
31	E. H. McNeal.....	October salary 1903.....	1148	100 00
31	C. S. Prosser.....	October salary 1903.....	1149	190 00
31	J. A. Bownocker.....	October salary 1903.....	1150	160 00
28	A. B. Probert.....	Oct. salary (night watch)...	1151	76 50
28	V. H. Davis.....	October salary 1903.....	1152	83 33
31	L. A. Rhoades.....	October salary 1903.....	1153	225 00
31	C. W. Mesloh.....	October salary 1903.....	1154	160 00
31	B. A. Eisenlohr.....	October salary 1903.....	1155	80 00
31	Sarah Barrows.....	October salary 1903.....	1156	40 00
31	J. R. Smith.....	October salary 1903.....	1157	225 00
31	A. W. Hodgman.....	October salary 1903.....	1158	160 00
31	W. S. Elden.....	October salary 1903.....	1159	160 00
31	W. R. Lazenby.....	October salary 1903.....	1160	225 00
31	F. E. Sanborn.....	October salary 1903.....	1161	200 00
31	W. A. Knight.....	October salary 1903.....	1162	120 00
31	W. H. Rench.....	October salary 1903.....	1163	100 00
31	C. P. Crowe.....	October salary 1903.....	1164	100 00
31	All Case.....	October salary 1903.....	1165	60 00
31	S. C. Derby.....	October salary 1903.....	1166	225 00
31	W. F. Hunter.....	October salary 1903.....	1167	250 00
31	W. H. Page.....	October salary 1903.....	1168	200 00
31	E. B. Kinkad.....	October salary 1903.....	1169	130 00
31	J. A. Shauck.....	October salary 1903.....	1170	100 00
31	E. O. Randall.....	October salary 1903.....	1171	80 00
31	Geo. W. Rightmire.....	October salary 1903.....	1172	50 00
31	Florence Price.....	October salary 1903.....	1173	40 00
31	Olive Jones.....	October salary 1903.....	1174	145 00
31	Harriet Townshend.....	October salary 1903.....	1175	60 00
31	Gertrude Kellicott.....	October salary 1903.....	1176	70 00
31	Maude Jeffrey.....	October salary 1903.....	1177	70 00
31	Martha Hartford.....	October salary 1903.....	1178	40 00
31	Elizabeth Smythe.....	October salary 1903.....	1179	40 00
31	Max Morton.....	October salary 1903.....	1180	30 00
31	R. D. Bohannon.....	October salary 1903.....	1181	225 00
31	Geo. W. McCoard.....	October salary 1903.....	1182	160 00
31	J. E. Boyd.....	October salary 1903.....	1183	150 00
31	K. D. Swartze.....	October salary 1903.....	1184	150 00
31	H. W. Kuhn.....	October salary 1903.....	1185	110 00
31	S. E. Rasor.....	October salary 1903.....	1186	100 00
31	W. E. Davis.....	October salary 1903.....	1187	30 00
31	E. F. Coddington.....	October salary 1903.....	1188	110 00
31	W. T. Magruder.....	October salary 1903.....	1189	225 00
31	E. A. Hitchcock.....	October salary 1903.....	1190	175 00
31	Horace Judd.....	October salary 1903.....	1191	120 00
31	W. R. Judson.....	October salary 1903.....	1192	60 00
31	N. W. Lord.....	October salary 1903.....	1193	200 00
31	E. E. Somermeier.....	October salary 1903.....	1194	110 00
31	G. O. Spitler.....	October salary 1903.....	1195	30 00
31	Gustav Bruder.....	October salary 1903.....	1196	20 00
31	F. A. Ray.....	October salary 1903.....	1197	200 00
31	T. B. Simon.....	October salary 1903.....	1198	30 00
31	Geo. B. Kauffman.....	October salary 1903.....	1199	200 00
31	C. A. Dye.....	October salary 1903.....	1200	110 00
31	W. H. Scott.....	October salary 1903.....	1201	225 00
31	A. E. Davies.....	October salary 1903.....	1202	90 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Oct.	31 C. P. Linhart.....	October salary 1903.....	1203	160 00
	31 D. C. Huddleson.....	October salary 1903.....	1204	80 00
	31 Alma H. Wacker.....	October salary 1903.....	1205	7 50
	31 Maud W. Martin.....	October salary 1903.....	1206	80 00
	31 B. F. Thomas.....	October salary 1903.....	1207	225 00
	31 A. D. Cole.....	October salary 1903.....	1208	200 00
	31 R. F. Earhart.....	October salary 1903.....	1209	100 00
	31 L. B. Tuckerman.....	October salary 1903.....	1210	70 00
	31 W. L. Graves.....	October salary 1903.....	1211	130 00
	31 G. H. McKnight.....	October salary 1903.....	1212	130 00
	31 Mary A. Malloy.....	October salary 1903.....	1213	30 00
	31 F. J. Muirie.....	October salary 1903.....	1214	30 00
	31 Gilbert Pennock.....	October salary 1903.....	1215	30 00
	31 B. L. Bowen.....	October salary 1903.....	1216	225 00
	31 C. A. Bruce.....	October salary 1903.....	1217	150 00
	31 E. S. Ingraham.....	October salary 1903.....	1218	120 00
	31 Herminie de Nagy.....	October salary 1903.....	1219	30 00
	31 D. S. White.....	October salary 1903.....	1220	200 00
	31 S. Sisson.....	October salary 1903.....	1221	170 00
	31 O. V. Brumley.....	October salary 1903.....	1222	100 00
	31 D. H. Udall.....	October salary 1903.....	1223	145 00
	31 L. W. Funk.....	October salary 1903.....	1224	60 00
	31 R. M. Royer.....	October salary 1903.....	1225	70 00
	31 Herbert Osborn.....	October salary 1903.....	1226	225 00
	31 J. S. Hine.....	October salary 1903.....	1227	120 00
	31 F. L. Landacre.....	October salary 1903.....	1228	120 00
	31 Max Morse.....	October salary 1903.....	1229	30 00
	31 R. M. Rownd, P. M....	Envelopes.....	1230	10 60
	30 Lily Weeks.....	October salary 1903.....	1231	27 00
	30 Roy Pratt.....	Labor.....	1232	6 72
	30 Chas. Pixler.....	Labor.....	1233	13 33
	31 B. F. Thomas.....	Petty items.....	1234	3 75
Nov.	3 W. R. Lazenby.....	Supplies.....	1235	3 85
	3 Dick Ashenhurst.....	Wheeling coal.....	1236	53 52
	5 Alex Argo.....	October salary 1903.....	1237	60 00
	5 Perrie L. Arnold.....	Labor.....	1238	12 45
	5 E. J. Billings.....	Labor.....	1239	28 87
	5 Jos. N. Bradford.....	Hauling.....	1240	3 00
	5 F. E. Bentler.....	Wiring.....	1241	22 12
	5 Ethel Baldwin.....	Music.....	1242	16 00
	5 Thomas Beer.....	Assistance.....	1243	1 43
	5 Robert F. Bushner.....	Labor.....	1244	88
	5 H. L. Bostater.....	Wiring.....	1245	22 26
	5 S. Bittle.....	Labor.....	1246	2 25
	5 A. L. Burgess.....	Labor.....	1247	1 50
	5 C. W. Bower.....	Labor.....	1248	1 15
	4 Guy W. Mallon.....	Expenses.....	1249	9 00
	5 H. E. Burgess.....	Typewriting.....	1250	6 00
	5 W. W. Boyd.....	Expenses.....	1251	108 14
	5 H. L. Beach.....	Student labor.....	1252	19 88
	5 G. A. Crayton.....	Wiring.....	1253	1 87
	5 L. F. Chaney.....	Labor.....	1254	5 40
	5 T. J. Corkery.....	Labor.....	1255	13 55
	5 Harry D. Cranston.....	Wiring.....	1256	9 30
	5 G. M. Cameron.....	Labor.....	1257	14 85
	5 A. B. Clements.....	Labor.....	1258	3 00
	5 W. O. Dean.....	Wiring.....	1259	25 31
	5 N. C. Dysart.....	Labor.....	1260	3 60
	5 J. D. Davis.....	Assistance.....	1261	6 45
	5 Harry I. Dodson.....	Labor.....	1262	7 95

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
5	J. Downing.....	Labor.....	1263	10 40
5	M. Dresbach.....	Supplies.....	1264	4 49
5	Harry E. Ewing.....	Labor.....	1265	3 50
5	Ida Fischer.....	Labor.....	1266	14 80
5	A. D. Trye.....	Wiring.....	1267	5 40
5	A. D. Fitzgerald.....	Labor.....	1268	18 60
5	E. R. Feicht.....	Labor.....	1269	12 20
5	E. M. Gorrell.....	Labor.....	1270	6 14
5	Joseph Garretson.....	Labor.....	1271	14 00
5	Alonzo Green.....	Labor.....	1272	37 20
5	F. G. Green.....	Labor and team.....	1273	47 07
5	S. W. Stillman Dutton	Bal. of Arch. fees Law Bldg.	1274	56 03
5	W. D. Griffith.....	Labor.....	1275	43 80
5	L. F. Gehres.....	Assistance.....	1276	10 62
5	H. A. Gehres.....	Student labor.....	1277	22 58
5	John Graft.....	Firing.....	1278	27 20
5	Ellsworth Gough.....	Labor.....	1279	40 54
5	C. N. Hackett.....	Guides.....	1280	5 50
5	Charles Honser.....	Wiring.....	1281	6 40
5	Harry S. Hidden.....	Assistance.....	1282	5 40
5	Fred. I. Hauge.....	Wiring.....	1283	2 45
5	W. F. Hunter.....	Stamps.....	1284	3 00
5	R. E. Hecker.....	Wiring.....	1285	8 30
5	E. W. Harrington.....	Labor.....	1286	24 00
5	True Houser.....	Labor.....	1287	21 23
5	Lilian Huffman.....	Labor.....	1288	18 00
5	J. Hoffhine.....	Labor.....	1289	6 45
5	D. L. Hurst.....	Labor.....	1290	16 00
5	H. H. Hamilton.....	Labor.....	1291	7 16
5	Thomas Hamilton.....	Campus work.....	1292	2 17
5	W. W. Hackney.....	Labor.....	1293	10 13
5	Caleb Hobbs.....	Student labor.....	1294	10 99
5	W. R. Joslin.....	Campus work.....	1295	1 06
5	F. H. Jackson.....	Guide.....	1296	4 60
5	Horace Judd.....	Office supplies.....	1297	3 95
5	C. H. Kerr.....	Labor.....	1298	20 67
5	E. S. Kent.....	Campus work.....	1299	3 75
5	Thos. W. Lang.....	Labor.....	1300	13 70
5	Samuel Lowery.....	Labor.....	1301	51 20
5	O. F. Metz.....	Labor.....	1302	14 25
5	Harvey C. Moist.....	Labor.....	1303	4 13
5	O. E. McCreary.....	Campus work.....	1304	16 67
5	C. M. McClure.....	Assistance.....	1305	3 60
5	H. S. Murphy.....	Hauling.....	1306	10 05
5	A. R. Moist.....	Guide.....	1307	2 88
5	Wm. McPherson.....	Supplies.....	1308	7 10
5	W. G. McGruder.....	Cash advanced.....	1309	11 10
5	Jose Mendonca.....	Campus work.....	1310	1 00
5	G. R. Nash.....	Campus work.....	1311	2 21
5	I. E. Powell.....	Labor.....	1312	6 50
5	A. B. Probert.....	Watchman.....	1313	9 00
5	Fred W. Porter.....	Labor.....	1314	8 25
5	Chas. W. Reeder.....	Labor.....	1315	9 10
5	M. G. Roberts.....	Labor.....	1316	12 75
5	Frank Rigdon.....	Labor.....	1317	15 00
5	J. H. Randall.....	Carpenter.....	1318	58 80
5	A. L. Stewart.....	Labor.....	1319	6 50
5	M. P. Street.....	Tunnel.....	1320	153 00
5	Huber Seabright.....	Wiring.....	1321	11 72
5	A. A. Straub.....	Labor.....	1322	7 25

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
5	Chas. Savidis.....	Labor.....	1323	3 55
5	E. F. Shade.....	Campus work.....	1324	1 25
5	J. A. Stiver.....	Guide.....	1325	21 50
5	Thomas Swank.....	Carpenter.....	1326	75 60
5	Carl E. Steeb.....	November salary 1903.....	1327	83 33
5	Clara G. Mark.....	Labor.....	1328	9 12
5	J. A. Schneider.....	Carpenter.....	1329	75 60
5	B. O. Stingle.....	Campus work.....	1330	1 25
5	W. O. Thompson.....	Expenses.....	1331	27 05
5	A. B. Welty.....	Student labor.....	1332	15 15
5	D. S. White.....	Supplies.....	1333	2 65
5	Lester Waltman.....	Campus work.....	1334	1 25
5	Roy Tonkinson.....	Campus work.....	1335	2 91
5	C. M. Beem.....	Labor.....	1336	6 40
5	George Feick.....	Final est. Law building.....	1337	1,157 85
6	M. Armbruster & Son.	Painting.....	1338	60 00
6	Bucher Engr. & Mfg. Co.....	Half-tones.....	1339	14 15
6	Beck & Orr.....	Mounting charts.....	1340	9 00
6	Carl G. Bramlin.....	Cooking utensils.....	1341	2 50
6	Batterson Dec. House.	Papering.....	1342	25 00
6	Barrow Picture Frame Co.....	Frames.....	1343	34 28
6	Wm. Burdell, Jr.....	Halters, etc.....	1344	5 10
6	M. J. Bergin Lbr. Co..	Lumber.....	1345	5 75
6	Bowden Towel Supply Co.....	Towels.....	1346	50 62
6	H. Brann Sons & Co..	Supplies.....	1347	159 79
6	Blackwood, Green & Co.....	Stoves, glass, etc.....	1348	28 81
6	Columbus Bolt Wks..	Nuts.....	1349	3 20
6	Columbus Photo Sup- ply Co.....	Board.....	1350	2 50
6	Columbus Gas Co.....	Coke.....	1351	12 00
6	Columbus Mdse. Co...	Labels, etc.....	1352	10 35
6	Columbus Macadam Co.....	Stone, cement, lime.....	1353	12 28
6	Columbus Sewer Pipe Co.....	Pipe.....	1354	57 40
6	Columbus Wire & Iron Works.....	Basket.....	1355	2 50
6	Cherington Ptg. & En- graving Co.....	Autograph.....	1356	2 50
6	E. A. Cole & Co.....	Coal.....	1357	9 63
6	Columbus Contr. Sup- ply Co.....	Mortar.....	1358	2 57
6	Columbus Coal & Lime Co.....	Lime.....	1359	4 50
6	Columbus Brass Co...	Tee and pipe.....	1360	1 10
6	Columbus M. & M. Supply Co.....	Supplies.....	1361	54 53
6	Central Ohio Paper Co	Paper.....	1362	171 40
6	Geo. D. Cross Lumber Co.....	Lumber.....	1363	33 11
6	Columbus Supply Co..	Fittings.....	1364	92 67
6	Columbus Hdw. Co....	Nails and pulley cord.....	1365	3 15
6	Champlin Ptg. Co....	Printing.....	1366	51 00
6	Capital City Machine Works.....	Supplies.....	1367	167 74
6	W. J. Davidson.....	Hauling.....	1368	13 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
6	E. Doddington & Co..	Cases, etc.....	1369	222 25
6	Electric Supply & Construction Co.....	Wire, etc.....	1370	33 13
6	Engelke & Bigelow....	Freight and cartage.....	1371	97 33
6	Erner & Hopkins Co..	Supplies.....	1372	96 33
6	F. W. Freeman.....	Groceries.....	1373	44 34
6	Ferris Steam Motor Works.....	Mortar.....	1374	2 50
6	A. G. Geren.....	Paper.....	1375	1 40
6	Henry Goldsmith.....	Books.....	1376	10 00
6	Chas. B. Hood.....	Soap.....	1377	15 00
6	F. G. & A. Howald....	Tables and desks.....	1378	92 50
6	Hann & Adair.....	Vet. bulletin and printing...	1379	223 59
6	Hanna Paint Mfg. Co..	Stain.....	1380	1 00
6	C. W. Hurst & Co.....	Stamps.....	1381	4 16
6	P. Hayden Sad. Hdw. Co.....	Iron, etc.....	1382	97 15
6	Kilbourne & Jacobs Co.....	Wheels.....	1383	5 00
6	Columbus Hdw. Co....	Cans.....	1384	13 00
6	Kelton & Converse....	Lumber.....	1385	24 86
6	W. N. King.....	Rent.....	1386	250 00
6	Kimball & Mathews...	Onsto.....	1387	13 25
6	Krauss Butler & Benham Co.....	Rug and shades.....	1388	40 90
6	W. L. Lillie & Co.....	Coils wire.....	1389	1 20
6	Oscar S. Lear.....	Mimeograph, ink, etc.....	1390	23 75
6	McCoy & Skinner.....	Boxes.....	1391	14 60
6	Monypeny, Hammond Co.....	Matches.....	1392	2 75
6	McAllister, Moler & Co	Tables, etc.....	1393	22 00
6	W. H. Miller Co.....	Supplies.....	1394	11 44
6	Murray City Coal Co..	Coal.....	1395	1,962 65
6	Nitschke Bros.....	Paper, ink, etc.....	1396	28 15
6	New Franklin Ptg. Co.	Receipts.....	1397	4 75
6	Ohio Fur. & Mantle Co.	Desk.....	1398	48 00
6	Orr Brown & Price....	Bottles, supplies.....	1399	12 86
6	T. J. O'Neil.....	Cover, awnings.....	1400	8 50
6	Payne, McDonald Hdw Co.....	Hardware.....	1401	6 60
6	Ben. D. Potts.....	Engr. building.....	1402	2 20
6	The Phogocyte.....	Advertising.....	1403	30 00
6	Chas. J. Palmer.....	Repairs.....	1404	123 33
6	Ruggles-Gale Co.....	Supplies.....	1405	47 65
6	Spahr & Glenn.....	Cards, etc.....	1406	6 25
6	R. M. Seward & Co....	Tile and fire clay.....	1407	6 75
6	Standard Oil Co.....	Oil.....	1408	9 50
6	E. H. Sell & Co.....	Paper.....	1409	3 00
6	Schoedinger Fearn & Co.....	Glass.....	1410	18 55
6	Shilling Foundry.....	Castings.....	1411	8 66
6	Seraphim Blank Book Co.....	Binding.....	1412	20 55
6	Tracy Wells & Co.....	Crayons, etc.....	1413	11 83
6	Tallmadge Hdw. Co....	Glass, files, etc.....	1414	161 54
6	Underwood Type-writer Co.....	Typewriter.....	1415	70 00
6	Williams, Adair Mdse. Co.....	Jars.....	1416	14 04
6	J. M. & W. Westwater.	Supplies.....	1417	39 65

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Nov. 6	C. F. Yoerger.....	Painting.....	1418	12 90
6	Columbus Citizens Tel. Co.....	Changing location.....	1419	3 98
6	Standard Oil Co.....	Oil.....	1420	5 40
6	W. H. Anderson & Co.	Reports.....	1421	36 00
6	Am. Ceramic Society..	Proceedings.....	1422	14 00
6	Bausch & Lomb Optical Co.....	Slides.....	1423	9 88
6	Brimley Bros.....	Supplies.....	1424	1 75
6	Bossert Elect. Construction Co.....	Supplies.....	1425	23 77
6	E. Brann.....	Brushes.....	1426	3 00
6	Burrows Bros. & Co....	Books.....	1427	88 04
6	Creamery Pkg. Mfg. Co.....	Stuffing.....	1428	1 50
6	Chicago Lab. Sup. & Scale Co.....	Supplies.....	1429	388 07
6	Crane Co.....	Stuffing.....	1430	1 70
6	Caxton Co.....	Litho. plate.....	1431	12 36
6	Crosby Steam Gauge & Valve Co.....	Repairs.....	1432	2 79
6	Crucible Steel Co.....	Steel.....	1433	4 70
6	Creamery Pkg. Mfg. Co.....	Casting.....	1434	2 75
6	Dodge Mfg. Co.....	Rope and dressing.....	1435	11 36
6	Eimer & Amend.....	Tube.....	1436	46 37
6	Foot Mineral Co.....	Chemicals.....	1437	65
6	Foos Gas Engine Co....	Lever.....	1438	1 23
6	W. R. Harrison & Co..	Repairs.....	1439	31 34
6	E. H. Kellogg & Co....	Oil.....	1440	47 25
6	Jarecki Mfg. Co.....	Section.....	1441	2 25
6	Kemp & Burpee Mfg. Co.....	Supplies.....	1442	3 00
6	Library Bureau.....	Cases, rack and files.....	1443	80 50
6	Montgomery, Ward & Co.....	Supplies.....	1444	9 63
6	National Stockman & Farmer.....	Advertising.....	1445	60 48
6	R. P. Palmer.....	Thermometer and cone.....	1446	2 00
6	Publishers' Weekly....	Index and list.....	1447	4 50
6	Fred Macey & Co.....	Cards and guides.....	1448	10 10
6	New York Botanical Garden.....	Bulletin.....	1449	2 00
6	H. T. Paiste Co.....	Supplies.....	1450	7 80
6	Richmond Chair Co....	Table and chairs.....	1451	137 50
6	G. E. Stechert.....	Books.....	1452	77 86
6	Scientific Materials Co.	Supplies.....	1453	609 10
6	Smithsonian Institute.	Books.....	1454	11 60
6	Standard Chain Co....	Iron.....	1455	4 33
6	Swinging Typewriter Stand Co.....	Stand.....	1456	5 00
6	Star Milk Cooler Co....	Bottles.....	1457	5 50
6	E. H. Stafford & Bros.	Desk, chairs, etc.....	1458	64 35
6	J. W. Spencely.....	Book plate.....	1459	50 00
6	A. H. Thomas Co.....	Supplies.....	1460	785 95
6	Henry Troemner.....	Scales.....	1461	25 60
6	Vermont Farm Mch. Co.....	Testers.....	1462	33 60
6	Walworth Mfg. Co....	Supplies.....	1463	1,157 00
6	Williams, Brown & Earle.....	Instruments.....	1464	41 70

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Nov. 6	Ward's Nat'l Science Establishment.....	Mounting horse.....	1465	70 00
6	Waterbury Tool Co....	Joint.....	1466	10 00
6	Western Kieley Steam Spec. Co.....	Trap.....	1467	64 50
6	Webb Stationery & Printing Co.....	Supplies.....	1468	22 00
6	R. P. Winkler.....	Binding.....	1469	416 50
6	Y. M. C. A. of O. W. U.....	Adv. Law.....	1470	5 00
6	Columbus Gas Co.....	October gas.....	1471	159 53
6	C. U. Tel. Co.....	November rental.....	1472	10 00
6	W. U. Telegraph Co....	Telegrams.....	1473	4 09
6	Peters & Rost.....	Supplies.....	1474	675 86
10	Rochester Optical Co..	Repairs.....	1475	90
10	Chas. H. Woodruff....	Whisters.....	1476	75
12	C. P. Linhart.....	Supplies.....	1477	4 65
12	Guy W. Mallon.....	Expenses.....	1478	8 60
18	J. R. Clements.....	Salary.....	1479	15 00
20	New York Times.....	Subscription.....	1480	8 50
25	W. O. Thompson.....	November salary 1903.....	1481	416 67
25	K. H. Duncan.....	November salary 1903.....	1482	66 66
25	Edith D. Cockins.....	November salary 1903.....	1483	66 66
25	E. R. Hubler.....	November salary 1903.....	1484	40 00
25	Minnie Hines.....	November salary 1903.....	1485	40 00
25	Gertrude Bellows.....	November salary 1903.....	1486	40 00
25	W. C. McCracken.....	November salary 1903.....	1487	150 00
25	Wm. Standley.....	November salary 1903.....	1488	65 00
25	W. Case.....	November salary 1903.....	1489	55 00
25	B. A. LeBay.....	November salary 1903.....	1490	55 00
25	Thos. Bonde.....	November salary 1903.....	1491	50 00
25	Roy Pratt.....	November salary 1903.....	1492	50 00
25	Jas. Stainbrook.....	November salary 1903.....	1493	50 00
25	Marion Peck.....	November salary 1903.....	1494	45 00
25	Chas. Lewis.....	November salary 1903.....	1495	20 00
25	Norman Slee.....	November salary 1903.....	1496	20 00
25	George Ross.....	November salary 1903.....	1497	75 00
25	Earl Kimmel.....	November salary 1903.....	1498	25 00
25	Chas. Hicks.....	November salary 1903.....	1499	45 00
25	Earl Conway.....	November salary 1903.....	1500	12 50
25	G. A. Goodspeed.....	November salary 1903.....	1501	40 00
25	John Brown.....	November salary 1903.....	1502	25 00
25	John Brown.....	November salary 1903.....	1503	15 00
25	W. R. Thomas.....	November salary 1903.....	1504	40 00
25	Richard Brandon.....	November salary 1903.....	1505	40 00
25	Wm. Whitestein.....	November salary 1903.....	1506	40 00
25	Harry Chantler.....	November salary 1903.....	1507	40 00
25	Wash. Townsell.....	November salary 1903.....	1508	20 00
25	Francis Andrix.....	November salary 1903.....	1509	30 00
25	G. C. Denny.....	November salary 1903.....	1510	40 00
25	M. N. Cook.....	November salary 1903.....	1511	40 00
25	Andrew Rudell.....	November salary 1903.....	1512	40 00
25	H. M. Templin.....	November salary 1903.....	1513	40 00
25	J. W. Brown.....	November salary 1903.....	1514	40 00
25	C. M. Beem.....	November salary 1903.....	1515	40 00
25	W. E. Cook.....	November salary 1903.....	1516	40 00
25	Chas. Bixler.....	November salary 1903.....	1517	40 00
25	Joseph Black.....	November salary 1903.....	1518	12 50
25	H. H. Hamilton.....	November salary 1903.....	1519	12 50
25	F. E. Bentler.....	November salary 1903.....	1520	12 50

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Nov. 25	V. B. Dragoo.....	November salary 1903.....	1521	18 00
25	R. M. Martin.....	November salary 1903.....	1522	20 00
25	T. E. Osburn.....	November salary 1903.....	1523	45 00
25	John Ricketts.....	November salary 1903.....	1524	45 00
25	James Kelley.....	November salary 1903.....	1525	30 00
25	M. S. Harvey.....	November salary 1903.....	1526	25 00
25	C. H. Woodruff.....	November salary 1903.....	1527	70 00
25	J. P. Covan.....	November salary 1903.....	1528	83 33
25	A. F. Hall.....	November salary 1903.....	1529	73 33
25	H. C. Price.....	November salary 1903.....	1530	225 00
25	John W. Decker.....	November salary 1903.....	1531	170 00
25	Chas. S. Plumb.....	November salary 1903.....	1532	200 00
25	Frank Ruhlén.....	November salary 1903.....	1533	90 00
25	M. F. Miller.....	November salary 1903.....	1534	100 00
25	E. F. Mangold.....	November salary 1903.....	1535	50 00
25	Laurel L. Hill.....	November salary 1903.....	1536	40 00
25	H. A. Weber.....	November salary 1903.....	1537	225 00
25	Alfred Vivian.....	November salary 1903.....	1538	150 00
25	Rudolph Hirsch.....	November salary 1903.....	1539	60 00
25	Geo. W. Knight.....	November salary 1903.....	1540	250 00
25	A. H. Tuttle.....	November salary 1903.....	1541	120 00
25	H. R. Spencer.....	November salary 1903.....	1542	110 00
25	A. M. Beile.....	November salary 1903.....	1543	225 00
25	M. Dresbach.....	November salary 1903.....	1544	80 00
25	R. J. Seymour.....	November salary 1903.....	1545	25 00
25	J. A. Beer.....	November salary 1903.....	1546	25 00
25	Wm. C. Mills.....	November salary 1903.....	1547	40 00
25	Pearl Contellier.....	November salary 1903.....	1548	10 00
25	J. N. Bradford.....	November salary 1903.....	1549	210 00
25	T. E. French.....	November salary 1903.....	1550	150 00
25	T. K. Lewis.....	November salary 1903.....	1551	100 00
25	Silas Martin.....	November salary 1903.....	1552	100 00
25	J. H. Vosskuehler.....	November salary 1903.....	1553	120 00
25	J. S. Tidball.....	November salary 1903.....	1554	80 00
25	Lucian Shaw.....	November salary 1903.....	1555	30 00
25	H. C. Lord.....	November salary 1903.....	1556	225 00
25	B. F. Maag.....	November salary 1903.....	1557	100 00
25	C. B. Morrey.....	November salary 1903.....	1558	140 00
25	W. A. Kellerman.....	November salary 1903.....	1559	225 00
25	J. H. Shaffner.....	November salary 1903.....	1560	130 00
25	O. E. Jennings.....	November salary 1903.....	1561	50 00
25	H. H. York.....	November salary 1903.....	1562	25 00
25	Jas. McOwen.....	November salary 1903.....	1563	40 00
25	S. A. Norton.....	November salary 1903.....	1564	125 00
25	W. McPherson.....	November salary 1903.....	1565	225 00
25	W. E. Henderson.....	November salary 1903.....	1566	140 00
25	C. W. Foulk.....	November salary 1903.....	1567	120 00
25	M. Mumma.....	November salary 1903.....	1568	70 00
25	E. N. Webb.....	November salary 1903.....	1569	60 00
25	Catherine E. Andrews.....	November salary 1903.....	1570	60 00
25	J. A. Wilkinson.....	November salary 1903.....	1571	30 00
25	C. G. Stewart.....	November salary 1903.....	1572	30 00
25	C. E. Sherman.....	November salary 1903.....	1573	180 00
25	A. H. Heller.....	November salary 1903.....	1574	180 00
25	Frank Eno.....	November salary 1903.....	1575	150 00
25	H. D. Briuning.....	November salary 1903.....	1576	125 00
25	W. L. Davies.....	November salary 1903.....	1577	60 00
25	Edward Orton, Jr.....	November salary 1903.....	1578	200 00
25	A. V. Bleining.....	November salary 1903.....	1579	100 00
25	M. A. Stoner.....	November salary 1903.....	1580	180 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
25	C. P. Souther.....	November salary 1903.....	1581	120 00
25	Cora Elliott.....	November salary 1903.....	1582	25 00
25	J. E. Hagerty.....	November salary 1903.....	1583	120 00
25	C. C. Huntington.....	November salary 1903.....	1584	30 00
25	W. W. Miller.....	November salary 1903.....	1585	50 00
27	D. R. Major.....	November salary 1903.....	1586	160 00
25	T. H. Haines.....	November salary 1903.....	1587	130 00
25	W. W. Boyd.....	November salary 1903.....	1588	200 00
25	F. C. Caldwell.....	November salary 1903.....	1589	190 00
25	F. A. Fish.....	November salary 1903.....	1590	110 00
25	Helen Lambdin.....	November salary 1903.....	1591	11 00
25	A. C. Barrows.....	November salary 1903.....	1592	225 00
25	J. R. Taylor.....	November salary 1903.....	1593	150 00
25	W. H. Siebert.....	November salary 1903.....	1594	180 00
25	E. H. McNeal.....	November salary 1903.....	1595	100 00
25	C. S. Prosser.....	November salary 1903.....	1596	190 00
25	J. A. Bownocker.....	November salary 1903.....	1597	160 00
25	L. A. Rhoades.....	November salary 1903.....	1598	225 00
25	C. W. Mesloh.....	November salary 1903.....	1599	160 00
25	B. A. Eisenlohr.....	November salary 1903.....	1600	80 00
25	Sarah Barrows.....	November salary 1903.....	1601	40 00
25	J. R. Smith.....	November salary 1903.....	1602	225 00
25	A. W. Hodgman.....	November salary 1903.....	1603	160 00
25	W. S. Elden.....	November salary 1903.....	1604	160 00
25	W. R. Lazenby.....	November salary 1903.....	1605	225 00
25	V. H. Davis.....	November salary 1903.....	1606	83 33
25	F. E. Sanborn.....	November salary 1903.....	1607	200 00
25	W. A. Knight.....	November salary 1903.....	1608	120 00
25	W. H. Rench.....	November salary 1903.....	1609	100 00
25	C. P. Crowe.....	November salary 1903.....	1610	100 00
25	All Case.....	November salary 1903.....	1611	60 00
25	S. C. Derby.....	November salary 1903.....	1612	150 00
25	L. A. Grigsby.....	November salary 1903.....	1613	75 00
25	W. F. Hunter.....	November salary 1903.....	1614	250 00
25	W. H. Page.....	November salary 1903.....	1615	200 00
25	E. B. Kinkead.....	November salary 1903.....	1616	130 00
25	J. A. Schauk.....	November salary 1903.....	1617	100 00
25	E. O. Randall.....	November salary 1903.....	1618	80 00
25	Geo. W. Rightmire.....	November salary 1903.....	1619	50 00
25	Florence Price.....	November salary 1903.....	1620	40 00
25	Olive Jones.....	November salary 1903.....	1621	145 00
25	Harriet N. Townshend.....	November salary 1903.....	1622	60 00
25	Gertrude Kellicott.....	November salary 1903.....	1623	70 00
25	Maude Jeffrey.....	November salary 1903.....	1624	70 00
25	Martha Hartford.....	November salary 1903.....	1625	40 00
25	Elizabeth Smythe.....	November salary 1903.....	1626	40 00
25	Max Morton.....	November salary 1903.....	1627	30 00
25	R. D. Bohanon.....	November salary 1903.....	1628	225 00
25	Geo. W. McCoard.....	November salary 1903.....	1629	160 00
25	Jas. E. Boyd.....	November salary 1903.....	1630	150 00
25	K. D. Swartzel.....	November salary 1903.....	1631	150 00
25	H. W. Kuhn.....	November salary 1903.....	1632	110 00
25	S. E. Rasor.....	November salary 1903.....	1633	100 00
25	W. E. Davis.....	November salary 1903.....	1634	30 00
25	E. F. Coddington.....	November salary 1903.....	1635	110 00
25	J. R. Clements.....	November salary 1903.....	1636	20 00
25	W. T. Magruder.....	November salary 1903.....	1637	225 00
25	E. A. Hitchcock.....	November salary 1903.....	1638	175 00
25	Horace Judd.....	November salary 1903.....	1639	120 00
25	W. R. Judson.....	November salary 1903.....	1640	60 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Nov. 25	N. W. Lord.....	November salary 1903.....	1641	200 00
25	E. E. Somermeier.....	November salary 1903.....	1642	110 00
25	G. O. Spittler.....	November salary 1903.....	1643	30 00
25	Gustav Bruder.....	November salary 1903.....	1644	20 00
25	F. A. Ray.....	November salary 1903.....	1645	200 00
25	T. B. Simon.....	November salary 1903.....	1646	30 00
25	Geo. B. Kauffman....	November salary 1903.....	1647	200 00
25	C. A. Dye.....	November salary 1903.....	1648	110 00
25	W. H. Scott.....	November salary 1903.....	1649	225 00
25	A. E. Davies.....	November salary 1903.....	1650	90 00
25	C. P. Linhart.....	November salary 1903.....	1651	160 00
25	D. C. Huddleson.....	November salary 1903.....	1652	80 00
25	Alma H. Wacker.....	November salary 1903.....	1653	7 50
25	Maud W. Martin.....	November salary 1903.....	1654	80 00
25	B. F. Thomas.....	November salary 1903.....	1655	225 00
25	A. D. Cole.....	November salary 1903.....	1656	200 00
25	R. F. Earhart.....	November salary 1903.....	1657	100 00
25	L. B. Tuckerman.....	November salary 1903.....	1658	70 00
25	J. V. Denney.....	November salary 1903.....	1659	250 00
25	W. L. Graves.....	November salary 1903.....	1660	130 00
25	G. H. McKnight.....	November salary 1903.....	1661	130 00
25	Mary A. Malloy.....	November salary 1903.....	1662	30 00
25	F. J. Muirie.....	November salary 1903.....	1663	30 00
25	G. Pennock.....	November salary 1903.....	1664	30 00
25	B. L. Bowen.....	November salary 1903.....	1665	225 00
25	C. A. Bruce.....	November salary 1903.....	1666	150 00
25	E. S. Ingraham.....	November salary 1903.....	1667	120 00
25	Herminie de Nagy....	November salary 1903.....	1668	30 00
25	D. S. White.....	November salary 1903.....	1669	200 00
25	S. Sisson.....	November salary 1903.....	1670	170 00
25	O. V. Brumley.....	November salary 1903.....	1671	100 00
25	D. H. Udall.....	November salary 1903.....	1672	145 00
25	Lee W. Funk.....	November salary 1903.....	1673	60 00
25	R. M. Royer.....	November salary 1903.....	1674	70 00
25	Herbert Osborn.....	November salary 1903.....	1675	225 00
25	J. S. Hine.....	November salary 1903.....	1676	120 00
25	F. L. Landacre.....	November salary 1903.....	1677	120 00
25	Max Morse.....	November salary 1903.....	1678	30 00
25	J. G. Sanders.....	November salary 1903.....	1679	25 00
24	R. M. Rownd, P. M....	Postage stamps.....	1680	16 00
24	J. McLain Smith.....	Expenses.....	1681	27 90
24	R. M. Rownd, P. M....	Postage stamps.....	1682	56 20
24	M. A. Stoner.....	Supplies.....	1683	5 00
25	Lily Weeks.....	November salary 1903.....	1684	25 00
25	L. F. Kiesewetter, Treas. O. S. U.....	Bonds due Dec. 1, 1903, at N. Y.....	1685	25,000 00
27	Ohio National Bank...	6 mo. int. due on 4½ bonds less amt. paid in June, '03..	1686	1,575 00
27	Hayden Clinton Nat'l Bank.....	6 mo. int. on \$20,000 6 bonds 6 mo. int. on \$120,000 4½	1687	3,300 00
27	Hayden Clinton Nat'l Bank.....	6 mo. int. on \$20,000 4½ bonds.....	1688	450 00
27	L. F. Kiesewetter, Treas.....	6 mo. int. on \$25,000 4½ bonds.....	1689	562 50
28	C. H. Griffin.....	N. B. M. A. scholarship.....	1690	20 00
30	Maude W. Martin.....	Supplies.....	1691	1 35

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Dec. 1	Hayden Clinton Nat'l Bank.....	Bonds due.....	1692	30,000 00
1	Alexis Cope.....	December salary 1903.....	1693	187 50
3	Dick Ashenhurst.....	Labor.....	1694	21 60
3	Alex Arga.....	Labor.....	1695	60 00
3	P. L. Arnold.....	Labor.....	1696	1 62
3	F. L. Allen.....	Labor.....	1697	1 75
3	Ethel Baldwin.....	Music.....	1698	13 50
3	R. F. Busher.....	Labor.....	1699	5 75
3	J. E. Bard.....	Labor.....	1700	4 60
3	S. Bittle.....	Campus work.....	1701	2 10
3	Thomas Beer.....	Labor.....	1702	2 10
3	W. W. Boyd.....	Expenses.....	1703	96 50
3	J. E. Bard.....	Feed.....	1704	6 00
3	A. D. Bullock.....	Horses.....	1705	20 00
3	F. E. Bentler.....	Wiring.....	1706	17 50
3	C. W. Bowers.....	Campus work.....	1707	5 56
3	H. L. Bostater.....	Wiring.....	1708	21 00
3	H. L. Beach.....	Wiring.....	1709	2 50
3	Miss H. E. Burgess....	Clerical work.....	1710	6 15
3	E. J. Billings.....	Labor.....	1711	19 00
3	T. J. Corkery.....	Labor.....	1712	7 55
3	Louise Colton.....	Labor.....	1713	8 70
3	G. A. Craton.....	Wiring.....	1714	5 85
3	C. M. Davis.....	Campus work.....	1715	1 00
3	D. J. Demorest.....	Labor.....	1716	1 40
3	J. D. Davis.....	Labor.....	1717	6 40
3	H. I. Dodson.....	Wiring.....	1718	12 30
3	J. L. Downing.....	Labor.....	1719	8 90
3	Mary A. DeCamp.....	Labor.....	1720	11 81
3	W. O. Dean.....	Wiring.....	1721	12 82
3	J. I. Edmunds.....	Campus work.....	1722	1 12
3	A. D. Frye.....	Wiring.....	1723	1 00
3	Ida Fisher.....	Labor.....	1724	16 50
3	H. A. Gehres.....	Labor.....	1725	15 00
3	F. G. Green.....	Labor.....	1726	63 29
3	W. D. Griffith.....	Labor.....	1727	35 40
3	W. J. Gudgel.....	Wiring.....	1728	5 40
3	E. Gough.....	Labor.....	1729	48 00
3	C. H. Griffin.....	Labor.....	1730	17 60
3	John Graft.....	Labor.....	1731	48 00
3	T. H. Haines.....	Supplies.....	1732	1 95
3	C. N. Hackett.....	Guide.....	1733	5 38
3	Caleb Hobbs.....	Labor.....	1734	8 78
3	Lilian Hoffman.....	Labor.....	1735	16 05
3	John Hoffhine.....	Assistance.....	1736	7 65
3	E. W. Harrington.....	Labor.....	1737	16 73
3	D. L. Hurst.....	Campus work.....	1738	24 31
3	J. A. Hutzleman.....	Campus work.....	1739	6 15
3	Thomas Hamilton.....	Campus work.....	1740	2 55
3	F. H. Jackson.....	Guide.....	1741	3 38
3	W. R. Joslin.....	Campus work.....	1742	1 87
3	W. A. Kellerman.....	Supplies.....	1743	9 82
3	C. H. Kerr.....	Labor.....	1744	6 55
3	A. J. Korabeck.....	Labor.....	1745	1 12
3	Harry Kirby.....	Labor.....	1746	1 12
3	Charles Kent.....	Campus work.....	1747	2 85
3	T. W. Lang.....	Labor.....	1748	7 55
3	Samuel Lowery.....	Labor.....	1749	48 00
3	Clara G. Mark.....	Labor.....	1750	8 50

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Dec.	3 P. S. Menough.....	Labor.....	1751	6 00
	3 R. M. Mark.....	Labor.....	1752	8 75
	3 H. S. Murphy.....	Labor.....	1753	9 45
	3 H. C. Moist.....	Labor.....	1754	2 25
	3 Wm. T. Magruder.....	Supplies.....	1755	2 09
	3 Ora McCreary.....	Campus work.....	1756	8 69
	3 T. R. Martin.....	Campus work.....	1757	2 75
	3 Edgar Martin.....	Campus work.....	1758	6 15
	3 C. M. Mindling.....	Campus work.....	1759	1 35
	3 G. C. McKeever.....	Wiring.....	1760	4 20
	3 H. E. Nold.....	Campus work.....	1761	1 05
	3 G. R. Nash.....	Campus work.....	1762	3 97
	3 C. S. Plumb.....	Book.....	1763	1 25
	3 Marion Peck.....	Labor.....	1764	13 50
	3 M. G. Roberts.....	Labor.....	1765	12 23
	3 C. W. Reeder.....	Labor.....	1766	7 40
	3 W. H. Redhead.....	Labor.....	1767	11 30
	3 R. B. Roy.....	Campus work.....	1768	1 75
	3 C. G. Savides.....	Labor.....	1769	4 00
	3 E. T. Sill.....	Wiring.....	1770	23 01
	3 C. E. Sherman.....	Supplies.....	1771	6 60
	3 Jos. A. Stiver.....	Labor.....	1772	13 50
	3 Huber Seabright.....	Wiring.....	1773	9 28
	3 E. A. Tyler.....	Labor.....	1774	2 37
	3 Roy Tonkinson.....	Campus work.....	1775	1 62
	3 George Updike.....	Labor.....	1776	11 25
	3 G. A. Washburne.....	Labor.....	1777	13 78
	3 H. G. Weinland.....	Labor.....	1778	2 25
	3 D. S. White.....	Supplies.....	1779	3 60
	3 J. R. Watt.....	Campus work.....	1780	1 12
	4 Carl E. Steeb.....	December salary 1903.....	1781	83 33
	4 W. F. Webb.....	Specimens.....	1782	24 50
	3 Thomas Swank.....	Carpenter work.....	1783	67 20
	3 J. A. Schneider.....	Carpenter work.....	1784	59 15
	4 J. H. Randall.....	Carpenter work.....	1785	53 20
	4 H. H. Brown.....	Standard Dict. Supplement.....	1786	5 00
	4 E. F. Mangold.....	Supplies.....	1787	4 30
	7 L. C. Williams.....	Janitor.....	1788	15 00
	23 W. O. Thompson.....	December salary 1903.....	1789	416 67
	18 K. H. Duncan.....	December salary 1903.....	1790	66 66
	18 Edith D. Cockins.....	December salary 1903.....	1791	66 66
	18 Edith R. Hubler.....	December salary 1903.....	1792	40 00
	18 Minnie Hines.....	December salary 1903.....	1793	40 00
	18 Gertrude Bellows.....	December salary 1903.....	1794	40 00
	18 Wm. C. McCracken.....	December salary 1903.....	1795	150 00
	18 Wm. Standley.....	December salary 1903.....	1796	65 00
	18 Wm. Case.....	December salary 1903.....	1797	55 00
	18 Benj. Le Bay.....	December salary 1903.....	1798	55 00
	18 Thos. Boude.....	December salary 1903.....	1799	50 00
	18 Roy Pratt.....	December salary 1903.....	1800	50 00
	18 Jas. Stainbrook.....	December salary 1903.....	1801	50 00
	18 Marion Peck.....	December salary 1903.....	1802	45 00
	18 Chas. Lewis.....	December salary 1903.....	1803	20 00
	18 Norman Slee.....	December salary 1903.....	1804	20 00
	18 George Rose.....	December salary 1903.....	1805	75 00
	18 Earl Kimmel.....	December salary 1903.....	1806	25 00
	18 Chas. Hicks.....	December salary 1903.....	1807	45 00
	18 G. A. Goodspeed.....	December salary 1903.....	1808	40 00
	18 John Brown.....	December salary 1903.....	1809	15 00
	18 John Brown.....	December salary 1903.....	1810	25 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Dec.	18 W. R. Thomas.....	December salary 1903.....	1811	40 00
	18 Richard Brandon.....	December salary 1903.....	1812	40 00
	18 Wm. Whitestein.....	December salary 1903.....	1813	40 00
	18 Harry Chantler.....	December salary 1903.....	1814	40 00
	18 Wash. Townsel.....	December salary 1903.....	1815	20 00
	18 Francis Andrix.....	December salary 1903.....	1816	30 00
	18 G. C. Denny.....	December salary 1903.....	1817	40 00
	18 M. N. Cook.....	December salary 1903.....	1818	40 00
	18 Andrew Rudell.....	December salary 1903.....	1819	40 00
	18 H. M. Templin.....	December salary 1903.....	1820	40 00
	18 J. W. Brown.....	December salary 1903.....	1821	40 00
	18 C. M. Beem.....	December salary 1903.....	1822	40 00
	18 W. E. Cook.....	December salary 1903.....	1823	40 00
	18 Chas. Pixler.....	December salary 1903.....	1824	40 00
	18 Joseph Black.....	December salary 1903.....	1825	25 00
	18 H. H. Hamilton.....	December salary 1903.....	1826	12 50
	18 F. E. Bentler.....	December salary 1903.....	1827	12 50
	18 V. B. Dragoo.....	December salary 1903.....	1828	18 00
	18 R. M. Martin.....	December salary 1903.....	1829	20 00
	18 T. E. Osborn.....	December salary 1903.....	1830	45 00
	18 John Ricketts.....	December salary 1903.....	1831	45 00
	18 James Kelley.....	December salary 1903.....	1832	30 00
	18 M. S. Harvey.....	December salary 1903.....	1833	25 00
	18 C. H. Woodruff.....	December salary 1903.....	1834	70 00
	18 J. P. Covan.....	December salary 1903.....	1835	83 33
	18 A. F. Hall.....	December salary 1903.....	1836	73 33
	18 H. C. Price.....	December salary 1903.....	1837	225 00
	18 J. W. Decker.....	December salary 1903.....	1838	170 00
	18 Chas. Plumb.....	December salary 1903.....	1839	200 00
	18 Frank Ruhlen.....	December salary 1903.....	1840	90 00
	18 M. F. Miller.....	December salary 1903.....	1841	100 00
	18 E. F. Mangold.....	December salary 1903.....	1842	50 00
	18 Laurel L. Hill.....	December salary 1903.....	1843	40 00
	18 H. A. Weber.....	December salary 1903.....	1844	225 00
	18 A. Vivian.....	December salary 1903.....	1845	150 00
	18 R. Hirsch.....	December salary 1903.....	1846	60 00
	18 Geo. W. Knight.....	December salary 1903.....	1847	250 00
	18 A. H. Tuttle.....	December salary 1903.....	1848	120 00
	18 H. R. Spencer.....	December salary 1903.....	1849	110 00
	18 A. M. Bleile.....	December salary 1903.....	1850	225 00
	18 M. Dresbach.....	December salary 1903.....	1851	80 00
	16 R. J. Seymour.....	December salary 1903.....	1852	25 00
	18 J. A. Beer.....	December salary 1903.....	1852	25 00
	18 W. C. Mills.....	December salary 1903.....	1854	40 00
	18 Pearl Contellier.....	December salary 1903.....	1855	10 00
	18 J. M. Bradford.....	December salary 1903.....	1856	210 00
	16 T. E. French.....	December salary 1903.....	1857	150 00
	18 T. K. Lewis.....	December salary 1903.....	1858	100 00
	18 Silas Martin.....	December salary 1903.....	1859	100 00
	18 J. H. Vosskuehler.....	December salary 1903.....	1860	120 00
	18 J. S. Tidball.....	December salary 1903.....	1861	80 00
	18 Lucian Shaw.....	December salary 1903.....	1862	30 00
	18 H. C. Lord.....	December salary 1903.....	1863	225 00
	18 B. F. Maag.....	December salary 1903.....	1864	100 00
	18 Chas. B. Morrey.....	December salary 1903.....	1865	140 00
	18 W. A. Kellerman.....	December salary 1903.....	1866	225 00
	18 J. H. Shaffner.....	December salary 1903.....	1867	130 00
	18 O. E. Jennings.....	December salary 1903.....	1868	50 00
	18 H. H. York.....	December salary 1903.....	1869	25 00
	18 Jas. McOwen.....	December salary 1903.....	1870	40 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Dec. 18	S. A. Norton	December salary 1903	1871	125 00
18	Wm. McPherson	December salary 1903	1872	225 00
18	W. E. Henderson	December salary 1903	1873	140 00
18	C. W. Foulk	December salary 1903	1874	120 00
18	M. Mumma	December salary 1903	1875	70 00
18	E. N. Webb	December salary 1903	1876	60 00
18	Catherine Andrews	December salary 1903	1877	60 00
18	J. A. Wilkinson	December salary 1903	1878	30 00
18	C. G. Stewart	December salary 1903	1879	30 00
18	C. E. Sherman	December salary 1903	1880	180 00
18	A. H. Heller	December salary 1903	1881	180 00
18	Frank Eno	December salary 1903	1882	150 00
18	H. D. Bruning	December salary 1903	1883	125 00
18	W. L. Davies	December salary 1903	1884	60 00
18	Edw. Orton, Jr.	December salary 1903	1885	200 00
18	A. V. Bleiningner	December salary 1903	1886	100 00
18	R. C. Purdy	December salary 1903	1887	50 00
18	C. H. Griffin	December salary 1903	1888	20 00
18	M. A. Stoner	December salary 1903	1889	180 00
18	C. P. Souther	December salary 1903	1890	120 00
18	Cora Elliott	December salary 1903	1891	25 00
18	J. E. Hagerty	December salary 1903	1892	120 00
18	C. C. Huntington	December salary 1903	1893	30 00
18	W. E. Miller	December salary 1903	1894	50 00
18	D. R. Major	December salary 1903	1895	160 00
18	T. H. Haines	December salary 1903	1896	130 00
18	W. W. Boyd	December salary 1903	1897	200 00
18	F. C. Caldwell	December salary 1903	1898	190 00
18	F. A. Fish	December salary 1903	1899	110 00
18	Helen Lambdin	December salary 1903	1900	11 00
18	A. C. Barrows	December salary 1903	1901	225 00
18	J. R. Taylor	December salary 1903	1902	150 00
18	W. H. Siebert	December salary 1903	1903	180 00
18	E. H. McNeal	December salary 1903	1904	100 00
18	C. S. Prosser	December salary 1903	1905	190 00
18	J. A. Bownocker	December salary 1903	1906	160 00
18	L. A. Rhoades	December salary 1903	1907	225 00
18	C. W. Mesloh	December salary 1903	1908	160 00
18	B. A. Eisenlohr	December salary 1903	1909	80 00
18	Sarah Barrows	December salary 1903	1910	40 00
18	J. R. Smith	December salary 1903	1911	225 00
18	A. W. Hodgman	December salary 1903	1912	160 00
18	W. S. Elden	December salary 1903	1913	160 00
18	W. R. Lazenby	December salary 1903	1914	225 00
18	V. H. Davis	December salary 1903	1915	83 33
18	F. E. Sanborn	December salary 1903	1916	200 00
18	W. A. Knight	December salary 1903	1917	120 00
18	W. H. Rench	December salary 1903	1918	100 00
18	C. P. Crowe	December salary 1903	1919	100 00
18	All Case	December salary 1903	1920	60 00
18	S. C. Derby	December salary 1903	1921	150 00
18	L. A. Grigsby	December salary 1903	1922	75 00
18	W. F. Hunter	December salary 1903	1923	250 00
18	W. H. Page	December salary 1903	1924	200 00
18	E. B. Kinkead	December salary 1903	1925	130 00
18	John A. Schauk	December salary 1903	1926	100 00
18	E. O. Randall	December salary 1903	1927	80 00
18	Geo. W. Rightmire	December salary 1903	1928	50 00
18	Florence Price	December salary 1903	1929	40 00
18	Olive Jones	December salary 1903	1930	145 00

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DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Dec. 18	Harriet Townshend....	December salary 1903.....	1931	60 00
18	Gertrude Kellicott....	December salary 1903.....	1932	70 00
18	Maude Jeffery.....	December salary 1903.....	1933	70 00
18	Martha Hartford.....	December salary 1903.....	1934	40 00
18	Elizabeth Smythe.....	December salary 1903.....	1935	40 00
18	Max Morton.....	December salary 1903.....	1936	30 00
18	R. D. Bohannon.....	December salary 1903.....	1937	225 00
18	Geo. W. McCoard.....	December salary 1903.....	1938	160 00
18	Jas. E. Boyd.....	December salary 1903.....	1939	150 00
18	K. D. Swartzel.....	December salary 1903.....	1940	150 00
18	H. W. Kuhn.....	December salary 1903.....	1941	110 00
18	S. E. Rasor.....	December salary 1903.....	1942	100 00
18	W. E. Davis.....	December salary 1903.....	1943	30 00
18	E. F. Coddington.....	December salary 1903.....	1944	110 00
18	J. R. Clements.....	December salary 1903.....	1945	20 00
18	W. T. Magruder.....	December salary 1903.....	1946	225 00
18	E. A. Hitchcock.....	December salary 1903.....	1947	175 00
18	Horace Judd.....	December salary 1903.....	1948	120 00
18	N. W. Lord.....	December salary 1903.....	1949	200 00
18	E. E. Somermeier.....	December salary 1903.....	1950	110 00
18	G. O. Spittler.....	December salary 1903.....	1951	30 00
18	Gustav Bruder.....	December salary 1903.....	1952	20 00
18	F. A. Ray.....	December salary 1903.....	1953	200 00
18	T. B. Simon.....	December salary 1903.....	1954	30 00
18	G. B. Kauffman.....	December salary 1903.....	1955	200 00
18	C. A. Dye.....	December salary 1903.....	1956	110 00
18	W. H. Scott.....	December salary 1903.....	1957	225 00
18	A. E. Davies.....	December salary 1903.....	1958	90 00
18	C. P. Linhart.....	December salary 1903.....	1959	160 00
18	D. C. Huddleson.....	December salary 1903.....	1960	80 00
18	Alma H. Wacker.....	December salary 1903.....	1961	7 50
18	Maude W. Martin.....	December salary 1903.....	1962	80 00
18	Lily Weeks.....	December salary 1903.....	1963	26 00
18	B. F. Thomas.....	December salary 1903.....	1964	225 00
18	A. D. Cole.....	December salary 1903.....	1965	200 00
18	R. F. Earhart.....	December salary 1903.....	1966	100 00
18	L. B. Tuckerman.....	December salary 1903.....	1967	70 00
18	J. V. Denney.....	December salary 1903.....	1968	250 00
18	W. L. Graves.....	December salary 1903.....	1969	130 00
18	G. H. McKnight.....	December salary 1903.....	1970	130 00
18	Mary A. Malloy.....	December salary 1903.....	1971	30 00
18	F. J. Muirie.....	December salary 1903.....	1972	30 00
18	Gilbert Pennock.....	December salary 1903.....	1973	30 00
18	B. L. Bowen.....	December salary 1903.....	1974	225 00
18	Chas. A. Bruce.....	December salary 1903.....	1975	150 00
18	E. S. Ingraham.....	December salary 1903.....	1976	120 00
18	Hermine de Nagy.....	December salary 1903.....	1977	30 00
18	D. S. White.....	December salary 1903.....	1978	200 00
18	S. Sisson.....	December salary 1903.....	1979	170 00
18	O. V. Brumley.....	December salary 1903.....	1980	100 00
18	D. H. Udall.....	December salary 1903.....	1981	145 00
18	Lee W. Funk.....	December salary 1903.....	1982	60 00
18	R. M. Royer.....	December salary 1903.....	1983	70 00
18	Herbert Osborn.....	December salary 1903.....	1984	225 00
18	J. S. Hine.....	December salary 1903.....	1985	120 00
18	F. L. Landaere.....	December salary 1903.....	1986	120 00
18	Max Morse.....	December salary 1903.....	1987	30 00
18	J. G. Sanders.....	December salary 1903.....	1988	25 00
18	O. F. Metz.....	December salary 1903.....	1989	11 44
8	Frank Holt.....	Feed.....	1990	199 57

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Dec. 10	Reed Mfg. Co.....	Vises.....	1991	40 76
22	Andrews & Barnes....	Belt and belting.....	1992	25 55
22	Artura Photo Paper Co	Photo supplies.....	1993	9 45
22	Bowden Towel Supply Co.....	Towels.....	1994	47 42
22	D. C. Beggs Co.....	Shades.....	1995	1 90
22	H. Brann Sons & Co....	Supplies.....	1996	81 48
22	Blackwood, Green & Co.....	Pipe, shovels, etc.....	1997	49 30
22	Citizen Pub. Co.....	Adv. bonds.....	1998	12 90
22	Columbus Photo Supply Co.....	Cardboard.....	1999	5 50
22	Columbus Wire & Iron Works.....	Repairs.....	2000	3 00
22	Columbus Electro Plating Works.....	Oxidized work.....	2001	14 34
22	Col'bus Macadam Co.....	Lime.....	2002	9 00
22	Gen. Ohio Oil Co.....	Oil.....	2003	9 79
22	Gen. Ohio Paper Co....	Paper.....	2004	1 25
22	Columbus M. & M. Supply Co.....	Glasses.....	2005	3 60
22	Columbus Hdw. Co.....	Cans.....	2006	6 50
22	Geo. D. Cross Lumber Co.....	Lumber.....	2007	84 40
22	Columbus Supply Co..	Pipes, supplies, etc.....	2008	26 06
22	Capital City Machine Works.....	Supplies.....	2009	44 26
22	Champlin Ptg. Co.....	Printing.....	2010	162 50
22	Columbus Gas Co.....	Coke.....	2011	27 00
22	The H. Cole Co.....	B. P. Machine, etc.....	2012	339 01
22	W. J. Davidson & Co..	Feed and hauling.....	2013	40 50
22	Elect. Supply & Const. Co.....	Cord.....	2014	3 38
22	Engelke & Bigelow....	Hauling.....	2015	82 02
22	Erner & Hopkins.....	Supplies.....	2016	98 33
22	Frederick W. Freeman.	Groceries.....	2017	17 17
22	Federal Mfg. Co.....	Castings.....	2018	1 34
22	Green, Joyce Co.....	Denum.....	2019	14 72
22	A. G. Geren.....	Paper.....	2020	3 40
22	Fred. J. Heer.....	Printing.....	2021	14 00
22	Hann & Adair.....	Printing.....	2022	53 60
22	F. G. & A. Howald....	Case.....	2023	13 50
22	P. Hayden Sad. Hdw. Co.....	Cylinders.....	2024	15 93
22	C. W. Hurst & Co.....	Stamps.....	2025	1 04
22	W. C. Gear.....	1 bbl. Kretol.....	2026	65 00
22	Kelton & Converse....	Lumber.....	2027	40 42
22	Leonard Ave. Coal Yard	Boiler Comp.....	2028	4 00
22	McClelland & Co.....	Pens, paper, etc.....	2029	3 70
22	McAllister-Mohler Co..	Tables.....	2030	10 00
22	J. W. Meek & Co.....	Repairing.....	2031	4 50
22	Murray City Coal Co..	Coal.....	2032	2,512 52
22	W. H. Miller Co.....	Supplies.....	2033	9 57
22	Nitschke Bros.....	Printing, envelopes, etc.....	2034	86 40
22	Orr Brown & Price....	Chemicals.....	2035	11 72
22	Ohio Furn. & Mantle Co.....	Tables and chairs.....	2036	18 30
22	Ohio Pump & Brass Co	Repairing.....	2037	3 00
22	Onyx Paint Co.....	Bronze, etc.....	2038	5 65

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Dec. 22	Ohio State Journal....	Advertising.....	2039	9 90
22	Pure Milk Co.....	Milk.....	2040	5 60
22	James Penn.....	Feed and hauling.....	2041	16 84
22	Chas. J. Palmer.....	Box, labor, etc.....	2042	43 17
22	Thomas Ross.....	Soda ash.....	2043	64 59
22	Seraphim Blank Book Co.....	Binding.....	2044	106 15
22	Shilling Foundry Co....	Castings.....	2045	3 00
22	Schoedinger, Fearn & Co.....	Sandpaper, etc.....	2046	29 59
22	Tracy-Wells Co.....	Mop, brooms, etc.....	2047	38 40
22	Taylor-Williams Co....	Coal.....	2048	28 72
22	Tallmadge Hdw. Co....	Hardware.....	2049	14 42
22	Williams Studio.....	Prints.....	2050	4 86
22	Y. M. C. A. of D. S. U.	Advertising.....	2051	5 00
22	W. H. Anderson Co....	Reports.....	2052	6 50
22	Am. Type Fdry Co....	Compound.....	2053	90
22	Apfel Murdock Co....	Balances.....	2054	40 50
22	Am. Steam Gauge & Valve Co.....	Planimeter.....	2055	9 45
22	Thos. Bryce.....	Pumps.....	2056	1 79
22	Bausch Lomb Optical Co.....	Objective.....	2057	9 91
22	Babcock & Wilcox Co.	Supplies.....	2058	55 81
22	Boston Book Co.....	Book.....	2059	3 13
22	Burrows Bros. Co....	Book.....	2060	210 88
22	Cutler Elect. & Mfg. Co.	Voltmeter.....	2061	6 00
22	Chicago House Wrecking Co.....	Belt.....	2062	16 50
22	Chicago Lab. Supply & Scale Co.....	Supplies.....	2063	68 29
22	Denver Fire Clay Co..	Supplies.....	2064	24 50
22	Enquirer Co.....	Advertising.....	2065	8 65
22	Export Shipping Co....	Export.....	2066	8 74
22	Eimer & Amend.....	Mortar.....	2067	12 75
22	F. Sutphen.....	Repairing.....	2068	10 15
22	Foos Gas Engine Co....	Rings.....	2069	1 87
22	Financial Record.....	Advertising.....	2070	22 00
22	W. Gaertner & Co....	Supplies.....	2071	228 50
22	Geometric Drill Co....	Tool.....	2072	15 75
22	General Elect. Co....	Transformer.....	2073	225 00
22	E. O. Hovey.....	Lantern and slides.....	2074	16 00
22	Journal of Commerce & Commercial Bull'tin..	Subscription.....	2075	12 00
22	India Alkali Works....	Savagran.....	2076	17 70
22	Jones & Laughlin Steel Co.....	Hangers and pulleys.....	2077	15 59
22	Knauth, Nachod & Kuhne.....	% O. Harrassowitz.....	2078	8 68
22	Lawrence Pub. Co....	Advertising.....	2079	100 80
22	Leader Printing Co....	Proposal advertising.....	2080	7 87
22	Manual Training Magazine.....	Subscription.....	2081	1 00
22	T. H. McAllister.....	Stereopticon.....	2082	126 00
22	Alex. Nielson.....	Necturns.....	2083	1 20
22	Tinius Olsen & Co....	Wedges.....	2084	9 00
22	G. E. Stechert.....	Books.....	2085	224 33
22	J. W. Spenceley.....	Bookplates.....	2086	16 00
22	Star Milk Cooler Co..	Bottles.....	2087	51 75
22	Scientific Materials Co.	Chemicals.....	2088	28 38

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Dec. 22	Smithsonian Institute.	Publications.....	2089	6 70
22	Stumpf & Stenrer.....	Advertising.....	2090	18 00
22	Stevens Institute Indi-			
	cator.....	Indicators.....	2091	1 00
22	Edward Thompson Co	Encyclopedia.....	2092	6 00
22	Toledo Newspaper Co.	Advertising.....	2093	9 40
22	H. N. Torrey.....	Cultures.....	2094	12 00
22	A. H. Thomas Co.....	Supplies.....	2095	165 69
22	Union Mfg. Co.....	Chuck.....	2096	46 55
22	Univ. of Chicago Press	Printing.....	2097	12 00
22	H. W. Wilson Co.....	Catalog.....	2098	5 00
22	Weston Elect. Inst. Co.	Cells.....	2099	40 50
22	Wagner Elect. Mfg. Co.	Wattmeter.....	2100	42 93
22	Wards Nat. Sci. Estab.	Specimens.....	2101	7 50
22	Whitall Tatum Co.	Supplies.....	2102	69 47
22	Ohio Natl. Bank.....	Foreign exchange.....	2103	3 65
14	C. U. Telephone Co.....	December toll service.....	2104	10 00
17	W. Whitestein.....	Feed.....	2105	4 00
17	Harry I. Dodson.....	Labor.....	2106	10 05
17	Cols. Gas Co.....	November gas.....	2107	224 40
18	Chester McClintock....	Labor.....	2108	12 07
18	W. S. Williams.....	Labor.....	2109	10 09
18	H. S. Hidden.....	Labor.....	2110	11 00
18	J. A. Wilkinson.....	Labor.....	2111	11 20
18	L. F. Gehres.....	Labor.....	2112	8 63
18	H. A. Gehres.....	Labor.....	2113	5 40
18	L. F. Chaney.....	Labor.....	2114	10 20
18	C. M. McClure.....	Labor.....	2115	6 60
18	H. C. Moist.....	Labor.....	2116	1 25
18	O. F. Metz.....	Labor.....	2117	8 59
18	C. Hobbs.....	Labor.....	2118	6 56
18	R. F. Busher.....	Labor.....	2119	1 88
19	G. M. Cameron.....	Labor.....	2120	3 80
19	R. M. Mark.....	Labor.....	2121	17 00
19	E. W. Harrington.....	Labor.....	2122	12 30
19	R. M. Royer.....	Labor.....	2123	12 00
19	E. R. Feicht.....	Labor.....	2124	12 05
19	C. N. Hackett.....	Guide.....	2125	3 75
19	A. D. Bullock.....	Fees Vet. clinic.....	2126	18 96
21	F. I. Hange.....	Labor.....	2127	5 86
21	H. L. Beach.....	Labor.....	2128	21 12
21	A. L. Stewart.....	Labor.....	2129	10 00
21	F. H. Jackson.....	Labor.....	2130	2 75
22	R. M. Rownd, P. M....	Stamps.....	2131	44 00
22	Ida May Fisher.....	Labor.....	2132	12 75
22	Lillian Huffman.....	Labor.....	2133	7 50
22	Roy E. Cartzdafner....	December salary.....	2134	55 00
22	A. B. Welty.....	Labor.....	2135	10 61
22	Martha Hartford.....	Bal. December salary.....	2136	10 00
22	Maude Jeffrev.....	Bal. December salary.....	2137	10 00
22	Gertrude Kellicott....	Bal. December salary.....	2138	10 00
22	H. J. A. Gerard.....	Labor.....	2139	6 58
22	Ohio Nat'l Bank.....	Money order for specimens..	2140	19 75
22	Geo. Feick & Co.....	Est. No. 2 & final Lake Lab.	2144	728 20
22	D. W. McGrath.....	Est. No. 8 Eng. bldg.....	2142	2,235 35
22	D. W. McGrath.....	Est. No. 1 extras Eng. bldg..	2143	379 16
22	F. C. Clark (Mrs.).....	Sept. & Oct. Salary of F. C.		
		Clark, 1903.....	2144	400 00
22	Bott Bros.....	Matts.....	2145	12 25
22	Herman Haerlein.....	Labor.....	2146	71 60

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Dec.	23	Agr. Students Pub. Co.	Advertising.....	2147 80 00
	23	F. A. Ray.....	Portfolios.....	2148 5 50
	23	D. M. Massie.....	Expenses.....	2149 9 15
	23	W. O. Thompson.....	Expenses.....	2150 67 02
	23	T. K. Lewis.....	Bal. Nov. and Dec. salary...	2151 50 00
	23	Chas. C. Wilcox.....	Serv. Clk. Batt. office.....	2152 10 00
	23	D. McGillioray.....	Serv. Clk. Batt. office.....	2153 10 00
	23	N. C. Dysart.....	Labor.....	2154 7 20
	23	Sherman Wolfe.....	Labor.....	2155 48 00
	23	Ohio State University.	Certificate of indebtedness..	2156 30,000 00
	23	L. F. Keisewetter, tr.		
		O. S. U.....	Investment Page will fund..	2157 1,940 26
	23	Carl E. Steeb.....	Notary work.....	2158 9 25
	23	The Hunnewell Soap Co.	Soap.....	2159 51 35
	23	Ohio Newspaper Syn.	Services.....	2160 30 00
	23	Ch. G. Savidis.....	Guide service.....	2161 2 88
	24	M. G. Roberts.....	Asst. Chem. Lab.....	2162 6 22
	24	F. M. Stanton.....	Work Chem. Lab.....	2163 6 40
	31	John Hoffhine.....	Stud. Asst. Chem.....	2164 3 15
	31	Mildred Waters.....	Salary as stenog.....	2165 140 00
1904				
Jany.	2	Pearl Contellier.....	Asst. in proof reading.....	2166 1 00
	4	Olive Jones.....	January salary.....	2167 145 00
	4	Columbus Club.....	Luncheon Board Trustees...	2168 8 10
	4	Chas. W. Mesloh.....	Services.....	2169 100 00
	7	W. H. Rench.....	Increase salary.....	2170 50 00
	8	Alexis Cope.....	Salary.....	2171 187 50
	8	Carl E. Steeb.....	Salary.....	2172 83 33
	8	Opal Tillman.....	Extracts.....	2173 11 95
	8	C. U. Telephone Co...	Phone rental.....	2174 10 00
	8	W. U. Telegraph Co...	Telegrams.....	2175 5 67
	14	Cols. Gas Co.....	Dec. gas.....	2176 167 48
	14	W. W. Boyd.....	Expenses.....	2177 69 15
	15	Cols. Citizens Tel. Co..	Telephone.....	2178 157 00
	15	C. Ashenhurst.....	Labor.....	2179 50 40
	15	Sam'l Lowery.....	Labor.....	2180 49 60
	24	John Graft.....	Labor.....	2181 49 60
	15	Helen E. Burgess.....	Assistance.....	2182 5 03
	15	Geo. Updike.....	Labor.....	2183 19 72
	16	M. Dresbach.....	Supplies.....	2184 8 20
	16	W. D. Griffith.....	Labor.....	2185 23 40
	16	Ellsworth Gough.....	Labor.....	2186 49 60
	16	Marion Peck.....	Labor.....	2187 13 95
	16	John A. Schneider.....	Carpenter.....	2188 73 85
	16	Thomas Swank.....	Carpenter.....	2189 71 40
	16	J. A. Stiver.....	Labor.....	2190 17 40
	16	H. S. Murphy.....	Labor.....	2191 7 20
	16	E. J. Billings.....	Labor.....	2192 10 10
	16	J. W. Decker.....	Supplies.....	2193 4 45
	18	W. O. Thompson.....	Supplies.....	2194 8 10
	20	H. G. Weinland.....	Labor.....	2195 26 35
	20	Chas. B. Morrey.....	Cash adv.....	2196 7 99
	21	E. A. Hitchcock.....	Supplies.....	2197 4 86
	22	Ohio Newspaper Syn...	Services.....	2198 70 80
	22	Andrew Spittal.....	Labor.....	2199 24 13
	25	W. O. Thompson.....	January salary 1903.....	2200 416 67
	25	R. M. Rownd, P. M.....	2,000 envelopes.....	2201 42 80
	29	K. H. Duncan.....	January salary 1904.....	2202 66 66
	31	Edith D. Cockins.....	January salary 1904.....	2203 66 66

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Jan. 31	Edith R. Hubler.....	January salary 1904.....	2204	40 00
31	Minnie Hines.....	January salary 1904.....	2205	40 00
31	Gertrude Bellows.....	January salary 1904.....	2206	40 00
31	W. C. McCracken.....	January salary 1904.....	2207	150 00
31	Wm. Standley.....	January salary 1904.....	2208	65 00
31	Wm. Case.....	January salary 1904.....	2209	55 00
30	Benj. Le Bay.....	January salary 1904.....	2210	55 00
30	Thos. Boude.....	January salary 1904.....	2211	50 00
30	Roy Pratt.....	January salary 1904.....	2212	50 00
30	Jas. Stainbrook.....	January salary 1904.....	2213	50 00
30	Marion Peck.....	January salary 1904.....	2214	45 00
30	Chas. Lewis.....	January salary 1904.....	2215	20 00
30	Norman Slee.....	January salary 1904.....	2216	20 00
30	George Rose.....	January salary 1904.....	2217	75 00
30	Earl Kimmel.....	January salary 1904.....	2218	25 00
30	Chas. Hicks.....	January salary 1904.....	2219	45 00
30	G. A. Goodspeed.....	January salary 1904.....	2220	40 00
30	John Brown.....	January salary 1904.....	2221	25 00
30	John Brown.....	January salary 1904.....	2222	15 00
30	W. R. Thomas.....	January salary 1904.....	2223	40 00
30	Richard Brandon.....	January salary 1904.....	2224	40 00
30	W. Whitestein.....	January salary 1904.....	2225	40 00
30	Harry Chantler.....	January salary 1904.....	2226	40 00
30	Wash. Townsel.....	January salary 1904.....	2227	20 00
30	Frances Andrix.....	January salary 1904.....	2228	30 00
30	G. C. Denney.....	January salary 1904.....	2229	40 00
30	M. N. Cook.....	January salary 1904.....	2230	40 00
30	Andrew Rudell.....	January salary 1904.....	2231	40 00
30	H. M. Templin.....	January salary 1904.....	2232	40 00
30	J. W. Brown.....	January salary 1904.....	2233	40 00
30	C. M. Beem.....	January salary 1904.....	2234	40 00
30	W. E. Cook.....	January salary 1904.....	2235	40 00
30	Willis Stahl.....	January salary 1904.....	2236	40 00
30	Joseph Black.....	January salary 1904.....	2237	25 00
30	H. H. Hamilton.....	January salary 1904.....	2238	12 50
30	F. E. Bentler.....	January salary 1904.....	2239	12 50
30	V. B. Drago.....	January salary 1904.....	2240	18 00
30	R. M. Martin.....	January salary 1904.....	2241	20 00
30	Thos. E. Osburn.....	January salary 1904.....	2242	45 00
30	John Rickets.....	January salary 1904.....	2243	45 00
30	James Kelley.....	January salary 1904.....	2244	30 00
30	M. S. Harvey.....	January salary 1904.....	2245	25 00
29	C. H. Woodruff.....	January salary 1904.....	2246	70 00
30	J. P. Covan.....	January salary 1904.....	2247	83 33
30	A. F. Hall.....	January salary 1904.....	2248	73 33
30	H. C. Price.....	January salary 1904.....	2249	225 00
30	J. W. Decker.....	January salary 1904.....	2250	170 00
27	Chas. Plumb.....	January salary 1904.....	2251	200 00
30	Frank Ruhlen.....	January salary 1904.....	2252	90 00
30	M. F. Miller.....	January salary 1904.....	2253	100 00
30	B. B. Herrick.....	January salary 1904.....	2254	66 66
30	D. A. Crowner.....	January salary 1904.....	2255	66 66
30	E. F. Mangold.....	January salary 1904.....	2256	50 00
30	Laurel L. Hill.....	January salary 1904.....	2257	40 00
30	H. A. Weber.....	January salary 1904.....	2258	225 00
30	Alfred Vivian.....	January salary 1904.....	2259	150 00
30	Rudolph Hirsch.....	January salary 1904.....	2260	60 00
30	Geo. W. Knight.....	January salary 1904.....	2261	250 00
30	A. H. Tuttle.....	January salary 1904.....	2262	120 00
30	H. R. Spencer.....	January salary 1904.....	2263	110 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.	
Jan.	30	A. M. Bleile.....	January salary 1904.....	2264	225 00
	30	M. Dresbach.....	January salary 1904.....	2265	80 00
	30	R. J. Seymour.....	January salary 1904.....	2266	25 00
	30	J. A. Beer.....	January salary 1904.....	2267	25 00
	30	W. C. Mills.....	January salary 1904.....	2268	40 00
	30	Pearl Contellier.....	January salary 1904.....	2269	10 00
	30	Jos. N. Bradford.....	January salary 1904.....	2270	210 00
	30	Thos. E. French.....	January salary 1904.....	2271	150 00
	30	Thos. K. Lewis.....	January salary 1904.....	2272	125 00
	30	Silas Martin.....	January salary 1904.....	2273	100 00
	30	J. H. Vosskuehler.....	January salary 1904.....	2274	120 00
	30	J. S. Tidball.....	January salary 1904.....	2275	80 00
	30	Lucian Shaw.....	January salary 1904.....	2276	30 00
	30	H. C. Lord.....	January salary 1904.....	2277	225 00
	30	B. F. Maag.....	January salary 1904.....	2278	100 00
	30	Chas. B. Morrey.....	January salary 1904.....	2279	140 00
	30	W. A. Kellerman.....	January salary 1904.....	2280	225 00
	30	J. H. Shaffner.....	January salary 1904.....	2281	130 00
	30	H. H. York.....	January salary 1904.....	2282	25 00
	30	Jas. McOwen.....	January salary 1904.....	2283	40 00
	30	S. A. Norton.....	January salary 1904.....	2284	125 00
	30	Wm. McPherson.....	January salary 1904.....	2285	225 00
	30	W. E. Henderson.....	January salary 1904.....	2286	140 00
	30	C. W. Foulk.....	January salary 1904.....	2287	120 00
	30	M. Munma.....	January salary 1904.....	2288	70 00
	30	E. N. Webb.....	January salary 1904.....	2289	60 00
	30	Catherine Andrews.....	January salary 1904.....	2290	60 00
	30	J. A. Wilkinson.....	January salary 1904.....	2291	30 00
	30	C. G. Stewart.....	January salary 1904.....	2292	30 00
	30	C. E. Sherman.....	January salary 1904.....	2293	180 00
	30	A. H. Heller.....	January salary 1904.....	2294	180 00
	30	Frank Eno.....	January salary 1904.....	2295	150 00
	30	H. D. Bruning.....	January salary 1904.....	2296	125 00
	30	W. L. Davies.....	January salary 1904.....	2297	60 00
	30	Edward Orton, Jr.....	January salary 1904.....	2298	200 00
	30	A. V. Bleining.....	January salary 1904.....	2299	100 00
	30	C. H. Griffin.....	January salary 1904.....	2300	20 00
	30	M. A. Stoner.....	January salary 1904.....	2301	180 00
	30	Cora Elliott.....	January salary 1904.....	2302	25 00
	30	J. E. Hagerty.....	January salary 1904.....	2303	120 00
	30	C. C. Huntington.....	January salary 1904.....	2304	30 00
	30	W. E. Miller.....	January salary 1904.....	2305	50 00
	30	D. R. Major.....	January salary 1904.....	2306	160 00
	30	T. H. Haines.....	January salary 1904.....	2307	130 00
	30	W. W. Boyd.....	January salary 1904.....	2308	200 00
	30	F. C. Caldwell.....	January salary 1904.....	2309	190 00
	30	F. A. Fish.....	January salary 1904.....	2310	110 00
	30	Helen Lambdin.....	January salary 1904.....	2311	11 00
	30	A. C. Barrows.....	January salary 1904.....	2312	225 00
	30	J. R. Taylor.....	January salary 1904.....	2313	150 00
	30	W. H. Siebert.....	January salary 1904.....	2314	180 00
	30	E. H. McNeal.....	January salary 1904.....	2315	100 00
	30	Chas. S. Prosser.....	January salary 1904.....	2316	190 00
	30	John A. Bownocker.....	January salary 1904.....	2317	160 00
	30	L. A. Rhoades.....	January salary 1904.....	2318	225 00
	30	C. W. Mesloh.....	January salary 1904.....	2319	160 00
	30	B. A. Eisenlohr.....	January salary 1904.....	2320	80 00
	30	Sarah Barrows.....	January salary 1904.....	2321	40 00
	30	J. R. Smith.....	January salary 1904.....	2322	225 00
	30	A. W. Hodgman.....	January salary 1904.....	2223	160 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Jan. 30	W. S. Elden.....	January salary 1904.....	2324	150 00
30	W. R. Lazenby.....	January salary 1904.....	2325	225 00
30	V. H. Davis.....	January salary 1904.....	2326	83 33
30	F. E. Sanborn.....	January salary 1904.....	2327	200 00
30	W. A. Knight.....	January salary 1904.....	2328	120 00
30	W. H. Rench.....	January salary 1904.....	2329	125 00
30	C. P. Crowe.....	January salary 1904.....	2330	100 00
30	All Case.....	January salary 1904.....	2331	60 00
30	Robert B. Cool.....	January salary 1904.....	2332	65 00
30	S. C. Derby.....	January salary 1904.....	2333	150 00
30	L. A. Grigsby.....	January salary 1904.....	2334	75 00
30	W. F. Hunter.....	January salary 1904.....	2335	250 00
30	W. H. Page.....	January salary 1904.....	2336	200 00
30	E. B. Kinkad.....	January salary 1904.....	2337	130 00
30	John O. Shauck.....	January salary 1904.....	2338	100 00
30	E. O. Randall.....	January salary 1904.....	2339	80 00
30	Geo. W. Rightmire.....	January salary 1904.....	2340	50 00
30	Florence Price.....	January salary 1904.....	2341	40 00
30	Harriett Townshend.....	January salary 1904.....	2342	60 00
30	Gertrude Kellicott.....	January salary 1904.....	2343	80 00
30	Maude Jeffrey.....	January salary 1904.....	2344	80 00
30	Martha Hartford.....	January salary 1904.....	2345	50 00
30	Elizabeth Smythe.....	January salary 1904.....	2346	40 00
30	Max Morton.....	January salary 1904.....	2347	30 00
30	R. D. Bohannon.....	January salary 1904.....	2348	225 00
30	G. W. McCoard.....	January salary 1904.....	2349	160 00
30	Jas. E. Boyd.....	January salary 1904.....	2350	150 00
30	Karl D. Swartzel.....	January salary 1904.....	2351	150 00
30	H. W. Kuhn.....	January salary 1904.....	2352	110 00
30	S. E. Rasor.....	January salary 1904.....	2353	100 00
30	W. E. Davis.....	January salary 1904.....	2354	30 00
30	E. F. Coddington.....	January salary 1904.....	2355	110 00
30	J. R. Clements.....	January salary 1904.....	2356	20 00
30	W. T. Magruder.....	January salary 1904.....	2357	225 00
30	E. A. Hitchcock.....	January salary 1904.....	2358	175 00
30	Horace Judd.....	January salary 1904.....	2359	120 00
30	R. E. Cartzdafner.....	January salary 1904.....	2360	55 00
30	N. W. Lord.....	January salary 1904.....	2361	200 00
30	E. E. Sommermeier.....	January salary 1904.....	2362	110 00
30	G. O. Spitzer.....	January salary 1904.....	2363	30 00
30	Gustav Bruder.....	January salary 1904.....	2364	20 00
30	F. A. Ray.....	January salary 1904.....	2365	200 00
30	T. B. Simon.....	January salary 1904.....	2366	30 00
30	Geo. B. Kauffman.....	January salary 1904.....	2367	200 00
30	C. A. Dye.....	January salary 1904.....	2368	110 00
30	W. H. Scott.....	January salary 1904.....	2369	225 00
30	A. E. Davies.....	January salary 1904.....	2370	90 00
30	C. P. Linhart.....	January salary 1904.....	2371	160 00
30	D. C. Huddleson.....	January salary 1904.....	2372	80 00
30	Maude W. Martin.....	January salary 1904.....	2373	80 00
30	Alma H. Walker.....	January salary 1904.....	2374	7 50
30	Lily Weeks.....	January salary 1904.....	2375	26 00
30	B. F. Thomas.....	January salary 1904.....	2376	225 00
30	A. D. Cole.....	January salary 1904.....	2377	200 00
30	R. F. Earhart.....	January salary 1904.....	2378	100 00
30	L. B. Tuckerman.....	January salary 1904.....	2379	70 00
30	J. V. Denney.....	January salary 1904.....	2380	250 00
30	W. L. Graves.....	January salary 1904.....	2381	130 00
30	G. H. McKnight.....	January salary 1904.....	2382	130 00
30	Mary A. Malloy.....	January salary 1904.....	2383	30 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Jan. 30	F. J. Muirie.....	January salary 1904.....	2384	30 00
30	Gilbert Pennock.....	January salary 1904.....	2385	30 00
30	B. L. Bowen.....	January salary 1904.....	2386	255 00
30	C. A. Bruce.....	January salary 1904.....	2387	150 00
30	E. S. Ingraham.....	January salary 1904.....	2388	120 00
30	Herminie de Nagy.....	January salary 1904.....	2389	30 00
30	D. S. White.....	January salary 1904.....	2390	200 00
30	S. Sisson.....	January salary 1904.....	2391	170 00
30	O. V. Brumley.....	January salary 1904.....	2392	100 00
30	D. H. Udall.....	January salary 1904.....	2393	145 00
30	J. McI. Phillips.....	January salary 1904.....	2394	100 00
30	Lee W. Funk.....	January salary 1904.....	2395	60 00
30	R. M. Royer.....	January salary 1904.....	2396	70 00
30	Herbert Osborn.....	January salary 1904.....	2397	225 00
30	J. S. Hine.....	January salary 1904.....	2398	120 00
30	F. L. Landacre.....	January salary 1904.....	2399	120 00
30	Max Morse.....	January salary 1904.....	2400	30 00
30	J. G. Sanders.....	January salary.....	2401	25 00
27	C. W. Jackson.....	Book.....	2402	1 00
29	O. E. Jennings.....	January salary.....	2403	50 00
29	C. W. Reeder.....	Labor.....	2404	4 65
29	B. A. Eisenlohr.....	Services.....	2405	100 00
30	Mildred Waters.....	January salary.....	2406	35 00
30	Alexis Cope.....	January salary.....	2407	187 50
30	Sherman Wolfe.....	January salary.....	2408	50 00
Feb. 1	Colo. Citizens Tel. Co..	Changing phone.....	2409	2 03
2	Wm. Whitstein.....	Feed.....	2410	4 00
2	Olive Jones.....	February salary.....	2411	145 00
3	R. M. Rownd.....	Stamps.....	2412	82 00
4	Lilian Huffman.....	Services.....	2413	24 20
4	Ida May Fisher.....	Services.....	2414	18 40
5	Dick Ashenhurst.....	Labor.....	2415	49 60
5	S. Bittle.....	Feed and labor.....	2416	1 12
5	F. E. Bentler.....	Wiring.....	2417	35 38
5	A. D. Bullock.....	Horses.....	2418	45 00
5	J. E. Bard.....	Feed.....	2419	2 00
5	Ethel Baldwin.....	Music.....	2420	23 00
5	Florence L. Bell.....	Services.....	2421	4 20
5	Mae Bellows.....	Services.....	2422	1 54
5	Helen E. Burgess.....	Services.....	2423	5 70
5	E. J. Billings.....	Labor.....	2424	10 50
5	T. J. Corkery.....	Labor.....	2425	7 45
5	W. R. Chamber.....	Labor.....	2426	2 00
5	Louise Coulton.....	Services.....	2427	2 35
5	Elmer Cook.....	Services.....	2428	2 04
5	H. D. Cranston.....	Services.....	2429	2 80
5	W. O. Dean.....	Wiring.....	2430	5 40
5	J. L. Downing.....	Labor.....	2431	16 30
5	Mary A. DeCamp.....	Services.....	2432	12 41
5	Effie Duncan.....	Services.....	2433	10 65
5	M. Dresbach.....	Feed, etc.....	2434	3 35
5	D. J. Demorest.....	Labor.....	2435	4 05
5	J. D. Davis.....	Assisting.....	2436	6 05
4	C. P. Linhart.....	Supplies.....	2437	5 23
5	R. H. Demorest.....	Labor.....	2438	4 50
5	L. F. Gehres.....	Labor.....	2439	10 00
5	F. G. Green.....	Labor.....	2440	10 77
5	John Graft.....	Labor.....	2441	49 60
5	Ellsworth Gough.....	Labor.....	2442	49 60
5	W. D. Griffith.....	Labor.....	2443	5 80

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Feb. 5	Melle W. Glass.....	Labor.....	2444	4 40
5	L. F. Gehers.....	Labor.....	2445	6 00
5	H. J. A. Gerard.....	Labor.....	2446	11 25
5	W. W. Hackney.....	Labor.....	2447	13 50
5	E. W. Harrington.....	Labor.....	2448	-13 80
5	E. A. Hitchcock.....	Cash advanced.....	2449	3 48
5	D. L. Hurst.....	Labor.....	2450	11 68
5	True Houser.....	Labor.....	2451	17 70
5	C. H. Kerr.....	Labor.....	2452	23 46
5	Marg. A. Knight.....	Services.....	2453	4 44
5	N. W. Lord.....	Paper, etc.....	2454	1 00
5	W. A. Lazenby.....	Supplies.....	2455	4 90
5	Samuel Lowery.....	Labor.....	2456	50 40
5	Thos. W. Lang.....	Labor.....	2457	16 65
5	Wm. T. Magruder.....	Glass.....	2458	1 15
5	B. F. Maag.....	Labor.....	2459	11 00
5	Edgar Martin.....	Labor.....	2460	7 35
5	J. C. Miron.....	Labor.....	2461	3 90
5	Wm. McPherson.....	Supplies.....	2462	8 85
5	O. F. Metz.....	Labor.....	2463	6 08
5	P. S. Menough.....	Labor.....	2464	3 20
5	R. M. Mark.....	Labor.....	2465	11 75
5	Simeon Nash.....	Labor.....	2466	6 90
5	Homer C. Price.....	Expenses.....	2467	41 75
5	A. B. Probert.....	Labor.....	2468	4 50
5	Helen Powell.....	Services.....	2469	5 00
5	M. G. Roberts.....	Labor.....	2470	10 15
5	C. E. Sherman.....	Cash advanced.....	2471	19 52
5	Thomas Swank.....	Labor.....	2472	36 40
5	John A. Schneider.....	Labor.....	2473	65 10
5	C. G. Savidis.....	Labor.....	2474	4 50
5	Alice Smith.....	Services.....	2475	12 90
5	C. G. Savidis.....	Labor.....	2476	6 00
5	Lewis H. Strom.....	Labor.....	2477	2 10
5	M. A. Stoner.....	Supplies.....	2478	5 00
5	H. E. Seymour.....	Labor.....	2479	2 50
5	B. F. Thomas.....	Labor.....	2480	9 43
5	Geo. Washburne.....	Labor.....	2481	11 63
5	A. B. Welty.....	Labor.....	2482	13 50
5	Burr S. Watters.....	Labor.....	2483	2 25
5	H. G. Weinland.....	Labor.....	2484	1 00
5	T. L. Wheeler.....	Labor.....	2485	16 60
5	D. S. White.....	Supplies.....	2486	8 57
5	J. W. Parkinson.....	Services.....	2487	16 66
5	E. D. Holl.....	Services.....	2488	16 70
5	E. E. Finney.....	Services.....	2489	14 40
5	Thos. L. Wheeler.....	Services.....	2490	20 90
5	John T. Mack.....	Expenses.....	2491	38 55
6	J. A. Stiver.....	Guide.....	2492	15 45
6	Carl E. Steeb.....	February salary.....	2493	83 33
9	E. H. Stafford.....	Desk and chair.....	2494	42 00
10	E. F. Shade.....	Guide.....	2495	1 75
10	F. H. Jackson.....	Guide.....	2496	4 88
10	Chas. B. Morrey.....	Supplies.....	2497	1 13
11	A. C. Barrows.....	Supplies.....	2498	3 60
11	C. N. Hackett.....	Labor.....	2499	1 25
12	Cols. Ry. & Light Co.....	Tickets.....	2500	5 00
13	Lester Waltman.....	Labor.....	2501	3 75
15	Thos. E. Osburn.....	February salary.....	2502	22 50
17	Wagner Elect. Mfg. Co.....	Repairs.....	2503	4 75

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
Feb. 20	Lester Waltman.....	Labor.....	2504	2 40
20	W. O. Thompson.....	February salary.....	2505	416 67
March 5	Katherine H. Duncan.....	February salary.....	2506	66 66
5	E. D. Cockins.....	February salary.....	2507	66 66
5	Edith R. Hubler.....	February salary.....	2508	40 00
5	Minnie F. Hines.....	February salary.....	2509	40 00
5	Gertrude Bellows.....	February salary.....	2510	40 00
5	W. C. McCracken.....	February salary.....	2511	150 00
5	Wm. Standley.....	February salary.....	2512	65 00
5	Wm. Case.....	February salary.....	2513	55 00
5	Benj. Le Bay.....	February salary.....	2514	55 00
5	Thos. Boude.....	February salary.....	2515	50 00
5	Roy Pratt.....	February salary.....	2516	50 00
5	Jas. Stainbrook.....	February salary.....	2517	50 00
5	Marion Peck.....	February salary.....	2518	45 00
5	Chas. Lewis.....	February salary.....	2519	20 00
5	Norman Slee.....	February salary.....	2520	20 00
5	George Rose.....	February salary.....	2521	75 00
5	Earl Kimmel.....	February salary.....	2522	25 00
5	Chas. Hicks.....	February salary.....	2523	45 00
5	G. A. Goodspeed.....	February salary.....	2524	40 00
5	John Brown.....	February salary.....	2525	15 00
5	John Brown.....	February salary.....	2526	25 00
Feb. 27	W. R. Thomas.....	February salary.....	2527	40 00
March 5	Richard Brandon.....	February salary.....	2528	40 00
5	Wm. Whitestein.....	February salary.....	2529	40 00
5	Harry Chantler.....	February salary.....	2530	40 00
Feb. 25	Wash. Townsel.....	February salary.....	2531	20 00
29	Frances Andrix.....	February salary.....	2532	30 00
March 5	G. C. Denny.....	February salary.....	2533	40 00
5	M. N. Cook.....	February salary.....	2534	40 00
5	Andrew Rudell.....	February salary.....	2535	40 00
5	H. M. Templin.....	February salary.....	2536	40 00
5	J. W. Brown.....	February salary.....	2537	40 00
5	C. M. Beem.....	February salary.....	2538	40 00
5	Wm. E. Cook.....	February salary.....	2539	40 00
5	Willis Stahl.....	February salary.....	2540	40 00
5	Joseph Black.....	February salary.....	2541	25 00
5	H. H. Hamilton.....	February salary.....	2542	12 50
5	F. E. Bentler.....	February salary.....	2543	12 50
5	V. B. Dragoo.....	February salary.....	2544	18 00
5	R. M. Martin.....	February salary.....	2545	20 00
5	John Ricketts.....	February salary.....	2546	45 00
5	James Kelley.....	February salary.....	2547	30 00
5	M. S. Harvey.....	February salary.....	2548	25 00
5	C. H. Woodruff.....	February salary.....	2549	70 00
5	J. P. Covan.....	February salary.....	2550	83 33
5	A. F. Hall.....	February salary.....	2551	73 33
5	Homer C. Price.....	February salary.....	2552	225 00
5	John W. Decker.....	February salary.....	2553	170 00
5	Chas. S. Plumb.....	February salary.....	2554	200 00
Feb. 26	Frank Ruhlen.....	February salary.....	2555	90 00
March 5	M. F. Miller.....	February salary.....	2556	100 00
5	B. B. Herrick.....	February salary.....	2557	66 66
5	D. A. Crowner.....	February salary.....	2558	66 66
5	E. F. Mangold.....	February salary.....	2559	50 00
5	Laurel L. Hill.....	February salary.....	2560	40 00
Feb. 26	H. A. Weber.....	February salary.....	2561	225 00
26	Alfred Vivian.....	February salary.....	2562	150 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.	
March	5	Rudolph Hirsch.....	February salary.....	2563	60 00
	5	Geo. W. Knight.....	February salary.....	2564	250 00
	5	A. H. Tuttle.....	February salary.....	2565	120 00
	5	H. R. Spencer.....	February salary.....	2566	110 00
	5	A. M. Bleile.....	February salary.....	2267	225 00
	5	M. Dresbach.....	February salary.....	2568	80 00
	5	R. J. Seymour.....	February salary.....	2569	25 00
	5	J. A. Beer.....	February salary.....	2570	25 00
	5	W. C. Mills.....	February salary.....	2571	40 00
	5	Pearl Contellier.....	February salary.....	2572	10 00
	5	J. N. Bradford.....	February salary.....	2573	210 00
	5	Thos. E. French.....	February salary.....	2574	150 00
	5	Thos. K. Lewis.....	February salary.....	2575	125 00
	5	Silas Martin.....	February salary.....	2576	100 00
	5	J. H. Vosskuehler.....	February salary.....	2577	120 00
	5	J. S. Tidball.....	February salary.....	2578	80 00
	5	Lucian Shaw.....	February salary.....	2579	30 00
	5	H. C. Lord.....	February salary.....	2580	225 00
	5	B. F. Maag.....	February salary.....	2581	100 00
	5	Chas. B. Morrey.....	February salary.....	2582	140 00
	5	W. A. Kellerman.....	February salary.....	2583	225 00
	5	J. H. Schaffner.....	February salary.....	2584	130 00
	5	H. H. York.....	February salary.....	2585	25 00
	5	Jas. McOwen.....	February salary.....	2586	40 00
	5	S. A. Norton.....	February salary.....	2587	125 00
	5	Wm. McPherson.....	February salary.....	2588	225 00
	5	W. E. Henderson.....	February salary.....	2589	140 00
	5	C. W. Foulk.....	February salary.....	2590	120 00
	5	M. Mumma.....	February salary.....	2591	70 00
	5	E. N. Webb.....	February salary.....	2592	60 00
	5	Catherine Andrews.....	February salary.....	2593	60 00
	5	J. A. Wilkinson.....	February salary.....	2594	30 00
	5	C. G. Stewart.....	February salary.....	2595	30 00
	5	C. E. Sherman.....	February salary.....	2596	180 00
	5	A. H. Heller.....	February salary.....	2597	180 00
	5	H. D. Browning.....	February salary.....	2598	125 00
	5	Frank Eno.....	February salary.....	2599	150 00
	5	W. L. Davies.....	February salary.....	2600	60 00
	5	Edw. Orton, Jr.....	February salary.....	2601	200 00
	5	A. O. Bleininger.....	February salary.....	2602	100 00
	5	C. H. Griffin.....	February salary.....	2603	20 00
	5	M. A. Stoner.....	February salary.....	2604	180 00
	5	May Secrest.....	February salary.....	2605	120 00
5	Cora Elliott.....	February salary.....	2606	25 00	
5	J. E. Hagerty.....	February salary.....	2607	120 00	
5	C. C. Huntington.....	February salary.....	2608	30 00	
5	W. E. Miller.....	February salary.....	2609	50 00	
5	D. R. Major.....	February salary.....	2610	160 00	
5	T. H. Haines.....	February salary.....	2611	130 00	
Feb'y.	29	W. W. Boyd.....	February salary.....	2612	200 00
March	5	F. C. Caldwell.....	February salary.....	2613	190 00
	5	F. A. Fish.....	February salary.....	2614	110 00
	5	Helen Lambdin.....	February salary.....	2615	11 00
	5	A. C. Barrows.....	February salary.....	2616	225 00
	5	J. R. Taylor.....	February salary.....	2617	150 00
	5	W. H. Siebert.....	February salary.....	2618	180 00
	5	E. H. McNeal.....	February salary.....	2619	100 00
	5	C. S. Prosser.....	February salary.....	2620	190 00
	5	J. A. Bownocker.....	February salary.....	2621	160 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
March	5 L. A. Rhoades.....	February salary.....	2622	225 00
	5 Mrs. C. W. Mesloh....	February salary.....	2623	160 00
	5 B. A. Eisenlohr.....	February salary.....	2624	80 00
	5 Sarah Barrows.....	February salary.....	2625	40 00
	5 J. R. Smith.....	February salary.....	2626	225 00
	5 A. W. Hodgman.....	February salary.....	2627	160 00
	5 W. S. Elden.....	February salary.....	2628	170 00
	5 W. R. Lazenby.....	February salary.....	2629	225 00
	5 V. H. Davis.....	February salary.....	2630	83 33
	5 F. E. Sanborn.....	February salary.....	2631	200 00
	5 W. A. Knight.....	February salary.....	2632	120 00
	5 W. H. Rench.....	February salary.....	2633	125 00
	5 C. P. Crowe.....	February salary.....	2634	100 00
	5 All Case.....	February salary.....	2635	60 00
	5 Robt. B. Cool.....	February salary.....	2636	65 00
	5 S. C. Derby.....	February salary.....	2637	150 00
	5 L. A. Grigsby.....	February salary.....	2638	75 00
	5 W. F. Hunter.....	February salary.....	2639	250 00
	5 W. H. Page.....	February salary.....	2640	200 00
	5 E. B. Kinkad.....	February salary.....	2641	130 00
	26 J. A. Shauck.....	February salary.....	2642	100 00
March	5 E. O. Randall.....	February salary.....	2643	80 00
	5 G. W. Rightmire.....	February salary.....	2644	50 00
	5 Florence Price.....	February salary.....	2645	40 00
	5 Harriet Townshend....	February salary.....	2646	60 00
	5 Gertrude Kellicott....	February salary.....	2647	80 00
	5 Maude Jeffrey.....	February salary.....	2648	80 00
	24 Martha Hartford.....	February salary.....	2649	50 00
March	5 Elizabeth Smythe.....	February salary.....	2650	40 00
	5 Max Morton.....	February salary.....	2651	30 00
	5 R. D. Bohannon.....	February salary.....	2652	225 00
	5 G. W. McCoard.....	February salary.....	2653	160 00
	5 J. E. Boyd.....	February salary.....	2654	150 00
	5 K. D. Swartzel.....	February salary.....	2655	150 00
	5 H. W. Kuhn.....	February salary.....	2656	110 00
	5 S. E. Rasor.....	February salary.....	2657	100 00
	5 W. E. Davis.....	February salary.....	2658	30 00
	5 E. F. Coddington.....	February salary.....	2659	110 00
	5 J. R. Clements.....	February salary.....	2660	20 00
	5 W. T. Magruder.....	February salary.....	2661	225 00
	5 E. A. Hitchcock.....	February salary.....	2662	175 00
	5 Horace Judd.....	February salary.....	2663	120 00
	5 R. E. Cartzdafner.....	February salary.....	2664	55 00
	5 N. W. Lord.....	February salary.....	2665	200 00
	5 E. E. Somermeier.....	February salary.....	2666	110 00
	5 G. O. Spitler.....	February salary.....	2667	30 00
	5 Gustav Bruder.....	February salary.....	2668	20 00
	5 F. A. Ray.....	February salary.....	2669	200 00
	5 T. B. Simon.....	February salary.....	2670	30 00
	5 Geo. B. Kauffman.....	February salary.....	2671	200 00
	5 C. A. Dye.....	February salary.....	2672	110 00
	5 W. H. Scott.....	February salary.....	2673	225 00
	5 A. E. Davies.....	February salary.....	2674	90 00
	5 C. P. Linhart.....	February salary.....	2675	160 00
	5 D. C. Huddleson.....	February salary.....	2676	80 00
	5 Alma H. Wacker.....	February salary.....	2677	7 50
	5 Maude W. Martin.....	February salary.....	2678	80 00
Feby.	29 Lily Weeks.....	February salary.....	2679	26 00
March	5 B. F. Thomas.....	February salary.....	2680	225 00
	5 A. D. Cole.....	February salary.....	2681	200 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
March	5 R. F. Earhart.....	February salary.....	2682	100 00
	5 L. B. Tuckerman.....	February salary.....	2683	70 00
	5 J. V. Denny.....	February salary.....	2684	250 00
	5 W. L. Graves.....	February salary.....	2685	130 00
	5 G. H. McKnight.....	February salary.....	2686	130 00
	5 Mary A. Malloy.....	February salary.....	2687	30 00
	5 F. J. Muirie.....	February salary.....	2688	30 00
	5 Gilbert Pennock.....	February salary.....	2689	30 00
	5 B. L. Bowen.....	February salary.....	2690	225 00
	5 C. A. Bruce.....	February salary.....	2691	150 00
	5 E. S. Ingraham.....	February salary.....	2692	120 00
	5 Herminie de Nagy.....	February salary.....	2693	30 00
	5 D. S. White.....	February salary.....	2694	200 00
	7 S. Sisson.....	February salary.....	2695	170 00
	5 O. V. Brumley.....	February salary.....	2696	100 00
	5 D. H. Udall.....	February salary.....	2697	145 00
	5 J. Mc. I. Phillips.....	February salary.....	2698	110 00
	5 Lee W. Funk.....	February salary.....	2699	60 00
	5 R. M. Royer.....	February salary.....	2700	70 00
	5 Herbert Osborn.....	February salary.....	2701	225 00
	5 J. S. Hine.....	February salary.....	2702	120 00
	5 F. L. Landacre.....	February salary.....	2703	120 00
	5 Max Morse.....	February salary.....	2704	30 00
	5 J. G. Sanders.....	February salary.....	2705	25 00
Feby.	24 Mrs. F. C. Clark.....	Books.....	2706	450 00
	24 Murray City Coal Co.....	Coal.....	2707	3,443 16
	25 R. M. Rownd, P. M.....	5,000 envelopes.....	2708	107 00
	27 W. C. Mills.....	Stamps.....	2709	2 00
	29 Ohio Newspaper Syn- dicate.....	Services.....	2710	105 00
Mar.	1 Smith W. Bennett.....	Salary.....	2711	300 00
	2 J. McLain Smith.....	Expenses.....	2712	20 00
	5 Dick Ashenhurst.....	Labor.....	2713	51 20
	5 Ethel Baldwin.....	Services.....	2714	16 00
	5 Jos. N. Bradford.....	Architect fees.....	2715	856 40
	5 Helen E. Burgess.....	Services.....	2716	7 20
	5 E. J. Billings.....	Services.....	2717	19 25
	5 S. Bittle.....	Labor.....	2718	1 35
	5 F. E. Bentler.....	Labor.....	2719	4 75
	5 R. F. Busher.....	Labor.....	2720	19 43
	5 L. F. Chaney.....	Labor.....	2721	6 60
	5 N. C. Dysart.....	Services.....	2722	3 60
Feby.	29 John Downing.....	Services.....	2723	7 20
Mar.	5 Mary A. DeCamp.....	Services.....	2724	20 00
	5 E. E. Finney.....	Services.....	2725	11 30
	5 Ida May Fisher.....	Services.....	2726	23 80
	5 W. D. Griffith.....	Labor.....	2727	3 30
	5 Ellsworth Gough.....	Labor.....	2728	46 40
	5 John Graft.....	Labor.....	2729	46 40
	5 Harry S. Hidden.....	Labor.....	2730	4 80
	5 E. D. Hall.....	Labor.....	2731	10 20
	5 Lilian Huffman.....	Services.....	2732	24 80
	5 C. H. Kerr.....	Labor.....	2733	19 57
	5 Samuel Lowery.....	Labor.....	2734	48 00
Feby.	2 Alexis Cope.....	Salary.....	2735	187 50
	29 Thomas W. Lang.....	Labor.....	2736	9 95
Mar.	5 R. M. Mark.....	Labor.....	2737	24 00
	5 C. M. McClure.....	Labor.....	2738	4 20
	5 H. S. Murphy.....	Labor.....	2739	10 00
	5 Edgar Martin.....	Labor.....	2740	5 40

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
March	5 Allen McOwen	Labor	2741	1 00
	5 Clara G. Mark	Services	2742	8 00
	5 Simeon Nash	Services	2743	10 15
	5 C. S. Plumb	Expenses	2744	19 95
	5 Marion Peck	Labor	2745	24 30
	5 E. A. Sanders	Labor	2746	17 00
	5 C. G. Savidis	Services	2747	3 63
	5 Carl E. Steeb	Notary services	2748	5 35
	5 J. R. Watt	Labor	2749	2 25
	5 Edwin Wallace	Services	2750	8 00
	5 Thos. L. Wheeler	Services	2751	14 40
	5 Sherman Wolfe	Labor	2752	50 00
	5 Sam. Esswein	Est. No. 1, Equip. Vet. bldg.	2753	550 00
	5 D. W. McGrath	Est. No. 9, Engr. bldg.	2754	1,928 50
	5 Jas. Westwater & Co.	Extras No. 3, Vet. bldg.	2755	535 61
	4 Jas. Westwater & Co.	Est. No. 9, Vet. bldg.	2756	1,092 50
	4 F. B. Toothaker	Printing	2757	4 40
	4 Hugh J. Baker	Labor	2758	6 05
	4 J. E. Bard	Vet. feed	2759	2 00
	4 A. D. Bullock	Horses	2760	25 00
	4 R. H. Demorest	Student labor	2761	4 05
	4 John M. Harsh	Labor	2762	1 50
	4 W. McPherson	Supplies	2763	6 06
	4 O. F. Metz	Janitor work	2764	14 70
	4 M. G. Roberts	Labor	2765	6 35
	4 A. B. Welty	Services	2766	5 59
	4 F. H. Jackson	Guide	2767	4 50
	4 J. A. Stiver	Guide	2768	15 38
	4 Ernest F. Shade	Guide	2769	3 57
	4 C. G. Savidis	Guide	2770	3 50
	4 S. B. Williams	Labor	2771	3 40
	4 Alice S. Burner	Polariscope	2772	75 00
	5 Carl E. Steeb, Acct.	Pay roll, Chemical bldg.	2773	248 89
	5 Mildred Waters	February salary	2774	35 00
	5 John A. Schneider	Carpenter	2775	67 55
	5 E. M. Skinner	Carpenter	2776	28 00
	5 Chas. T. Bowen	Carpenter	2777	28 00
	5 E. W. Hiatt	Carpenter	2778	28 00
	5 Walter Cranston	Carpenter	2779	9 80
	5 Thomas O. Capell	Carpenter	2780	14 00
	5 Edw. Murray	Carpenter	2781	11 20
	5 Wm. Essig	Carpenter	2782	11 20
	5 Geo. Woodward	Carpenter	2783	8 40
	5 Edward Hauffee	Carpenter	2784	14 00
	5 J. H. Randall	Carpenter	2785	16 80
	5 C. D. Davies	Plumbing	2786	18 00
	7 Lawrence Wolfe	Labor	2787	19 20
	7 Carl Troutman	Books	2788	1 00
	16 J. S. Abbott & Co.	Hardware	2789	72 20
	16 Arturo Photo Paper Co	Supplies	2790	2 63
	16 American Mch. Co.	Ribbons	2791	3 00
	16 Acme Paving Co.	Cement	2792	4 00
	16 Beck Bergener Co.	Moulding	2793	30 08
	16 H. Braun Sons & Co.	Supplies	2794	38 20
	16 Buckeye Trans. & Stor. Co.	Hauling	2795	2 50
	16 Buckeye Brass Fdry.	Castings	2796	29 48
	16 Buckeye Saw Mfg. Co.	Saws	2797	4 50
	16 Bucher Engr. & Mfg. Co.	Half-tones	2798	9 75

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
16	Blackwood Green Co.	Hardware.....	2799	38 92
16	Bowden Towel Supply Co.	Towels.....	2800	68 05
16	Columbus Mdse. Co.	Labels.....	2801	10 78
16	Columbus Steam Boiler & Heater Co.	Valves, etc.....	2802	167 00
16	Geo. D. Cross Lbr. Co.	Poplar.....	2803	1 20
16	Cent. Ohio Paper Co.	Paper, etc.....	2804	6 95
16	Columbus Plate & W. Glass Co.	Glass.....	2805	11 50
16	Col'bus Macadam Co.	Lime.....	2806	22 50
16	Columbus Photo Supply Co.	Photo supplies.....	2807	133 64
16	Champlin Ptg. Co.	Printing.....	2808	20 00
16	Columbus Sporting Goods Co.	Supplies.....	2809	42 66
16	Columbus Dispatch Co.	Advertising and fees.....	2810	26 25
16	Cherington Ptg. & Eng. Co.	Printing.....	2811	8 30
16	Gustav Bruder.	Musician.....	2812	3 00
16	Citizens Ice & Coal Co.	Coupon book.....	2813	8 00
16	H. J. Cole Co.	Blue print.....	2814	1 08
16	W. E. W. Cherry.	Equip. Engr. bldg.....	2815	2,452 70
16	Col'bus M. & M. Supply Co.	Supplies.....	2816	30 75
16	Cap. City Mch. Wks.	Supplies.....	2817	104 54
16	Columbus Litho. Co.	Certificates of Indebtedness.....	2818	70 00
16	Columbus Gas Co.	Coke.....	2819	21 00
16	Cent. Ohio Oil Co.	Oil.....	2820	17 06
16	Columbus Supply Co.	Supplies.....	2821	78 86
16	W. J. Davidson.	Cartage.....	2822	45 26
16	Engelke & Bigelow.	Freight and hauling.....	2823	54 19
16	Engelke & Bigelow.	Freight and cartage.....	2824	56 80
16	Samuel Esswein.	Plumbing.....	2825	43 00
16	Erner & Hopkins Co.	Supplies.....	2826	81 24
16	Frankenberg Bros.	Boxes.....	2827	5 00
16	John Fischer.	Decorating, etc.....	2828	29 00
16	F. W. Freeman.	Groceries.....	2829	20 71
16	J. J. Gheen.	Plastering.....	2830	24 30
16	Griswold-Sohl Co.	Iron.....	2831	5 58
16	A. G. Geren.	Supplies.....	2832	13 60
16	P. Hayden Sad. Hdw. Co.	Sand.....	2833	7 83
16	F. G. & A. Howald.	Desks and stools.....	2834	119 45
8	C. P. Linhart.	Supplies.....	2835	5 30
16	Harrington & Nonnenmacher.	Repairing.....	2836	2 25
16	Hamilton & Parker Co.	Cement and sand.....	2837	1 22
16	Hann & Adair.	Printing.....	2838	70 20
16	Hatton Pharmacy.	Oil.....	2839	1 00
16	Jeffrey Mfg. Co.	Supplies.....	2840	20 69
16	E. J. Jones & Co.	Mill work.....	2841	31 00
16	Kelton & Converse.	Lumber.....	2842	102 47
16	Kimball & Mathews.	Boxes.....	2843	3 60
16	Kauffman & Lattimer Co.	Supplies.....	2844	67 98
16	Livington Seed Co.	Flowers.....	2845	21 00
16	M. C. Lilley & Co.	Belts, etc.....	2846	57 20
16	J. A. Luff.	Hampers.....	2847	5 25

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
March 16	Oscar S. Lear.....	Ribbon.....	2848	1 00
8	Lawrence Press Co....	1,500 change tickets.....	2849	3 00
8	Lyndon Market.....	Supplies.....	2850	6 47
16	J. S. Maclean.....	Equipment.....	2851	1,486 00
16	Madden Darrah W. P. Co.....	Painting.....	2852	25 00
16	J. J. Marvin.....	Table tops.....	2853	30 25
16	Murray City Coal Co....	Coal.....	2854	3,439 64
16	McClelland & Co.....	Paper and ink.....	2855	3 04
16	Mann & Co.....	Razors.....	2856	1 50
16	McAllister Mohler & Co.....	Supplies.....	2857	324 10
16	W. H. Miller Co.....	Pipes, etc.....	2858	72 57
16	Monypeny-Hammond Co.....	Sugar, etc.....	2859	11 92
16	Nitschke Bros.....	Paper and printing.....	2860	52 83
16	Ohio Furn. & Mantel Co.....	Tables.....	2861	10 50
16	Ohio Messenger.....	Advertising.....	2862	15 00
16	Ohio State Journal.....	Advertising.....	2863	6 00
16	Orr, Brown & Price.....	Supplies.....	2864	29 86
16	James Penn.....	Hauling.....	2865	17 59
16	Pure Milk Co.....	Milk.....	2866	7 60
16	Pletsch & Suttons.....	Supplies.....	2867	13 00
16	Payne McDonald Hdw. Co.....	Hardware.....	2868	7 55
16	Ben D. Potts.....	Supplies.....	2869	4 55
16	Thomas Ross.....	Soda ash.....	2870	68 49
16	Rood Lumber Co.....	Sawdust.....	2871	1 75
16	Ruggles-Gale Co.....	Books.....	2872	14 50
16	A. H. Smythe.....	Paste, ink and pads.....	2873	5 60
16	J. H. & F. A. Sells & Co	Blankets.....	2874	12 40
16	Standard Oil Co.....	Oil.....	2875	27 65
16	Spahr & Glenn.....	Printing, etc.....	2876	83 40
16	Geo. H. Twiss, Agt.....	Books.....	2877	5 75
16	Taylor Williams & Co....	Coal.....	2878	39 26
16	Andrew Spittal.....	Labor.....	2879	15 16
16	Schroth & Potter.....	Shades.....	2880	4 80
16	Schoedinger, Fearn & Co.....	Hardware.....	2881	50 70
16	Tracy, Wells & Co.....	Boilers.....	2882	17 80
16	Tallmadge Hdw. Co....	Hardware.....	2883	44 04
16	Underwood Type. Co....	Typewriters and repairs.....	2884	108 25
16	Wiggins Stamp Fact....	Pads, etc.....	2885	2 60
9	P. E. Yoerger.....	Lettering.....	2886	6 00
9	O. Davis.....	Labor.....	2887	3 75
9	Jas. Scales.....	Labor.....	2888	1 25
9	Carl E. Steeb.....	March salary.....	2889	83 33
9	Columbus City Tel. Co....	Phone service.....	2890	2 10
9	J. Graft.....	Labor.....	2891	14 40
10	Lester Waltman.....	Hauling water.....	2892	4 65
11	H. I. Dodson.....	Labor.....	2893	11 46
12	Carl E. Steeb, acct.....	Pay-roll, wrecking Chemical building.....	2894	476 38
14	W. W. Boyd.....	Expenses.....	2895	110 15
14	R. E. Hohn.....	Labor, etc.....	2896	20 10
14	Jas. Cosner.....	Labor, etc.....	2897	3 00
16	Hugh Wyllie.....	Labor, etc.....	2898	14 00
16	R. M. Rownd, P. M....	Postage stamps.....	2899	10 00
16	J. W. Parkinson.....	Assistance.....	2900	33 34

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
March 16	Postal Telegraph Co...	Telegrams.....	2901	1 11
17	C. U. Telephone Co...	Telephone rentals and tolls..	2902	20 40
17	Columbus Gas Co.....	Gas.....	2903	318 98
17	W. U. Telegraph Co...	Telegrams.....	2904	8 95
18	W. H. Anderson.....	Reports.....	2905	30 50
18	E. B. Voorhees, Sec. & Treas.....	Membership.....	2906	15 00
18	Am. Microscopical Sy.	Dues.....	2907	2 00
18	Am. Guernsey Cattle Club.....	Proceedings.....	2908	5 25
18	Astronomical So'ty of the Pacific.....	Publication.....	2909	1 00
18	Am. Soc. of Civil Engr.	Transactions.....	2910	26 25
18	Am. Contractor.....	Advertising.....	2911	4 05
18	Am. Electro Chem. Sy.	Transactions.....	2912	2 00
18	Am. Conf. of Pharm. Fac.....	Assessment.....	2913	3 00
18	Assn. of Am. Law Schs.	Annual dues.....	2914	10 00
18	Jas. J. Behan.....	Animals.....	2915	21 90
18	C. S. Baker & Co.....	Tablets.....	2916	2 00
18	Buffalo Forge Co.....	Crosshead.....	2917	10 75
18	Jas. G. Biddle.....	Apparatus.....	2918	108 50
18	Burrows Bros. Co.....	Books.....	2919	118 96
18	Hermann Baker & Co.	Cutter.....	2920	6 25
18	Thomas Buchanan & Co.....	Carbo wheel.....	2921	14 39
18	Babcock & Wilcox Co.	Valves and tubes.....	2922	175 40
18	John S. Bushnell & Co.	Cord.....	2923	3 00
18	Central Electric Co...	Candle.....	2924	3 60
18	The Cincinnati Post...	Advertising.....	2925	7 15
18	Frederick Carl.....	Pump.....	2926	15 00
18	Chapman Valve Mfg. Co.....	Valve.....	2927	5 99
18	Cleveland News Bur...	Clippings.....	2928	5 00
18	Denver Fire Clay Co...	Supplies.....	2929	7 53
18	Daily Financial News.	Advertising.....	2930	22 00
18	Engr. & Mining Jour.	Advertising.....	2931	8 29
18	E. Bartholomew Publ. Co.....	Book.....	2932	6 00
18	Eimer & Amend.....	Apparatus, radium.....	2933	33 65
18	Fostoria Incand. Lamp Co.....	Lamps.....	2934	64 00
18	Wm. Gaertner & Co...	Supplies.....	2935	157 64
18	Gunttons Magazine...	Subscription.....	2936	1 75
18	Garlock Packing Co...	Packing.....	2937	21 56
18	Hunnewell Soap Co...	Quickeline.....	2938	32 45
18	A. W. Hall Scient. Co.	Meter sticks.....	2939	4 20
18	Hoards Dairyman.....	Advertising.....	2940	25 00
18	Hyatt Roller Bearing Co.....	Supplies.....	2941	11 20
18	International Quarter.	Subscription.....	2942	4 00
18	India Alkali Works....	Savogran.....	2943	16 56
18	Inter. Text-book Co...	Books.....	2944	76 00
18	Geo. T. Johnson Co...	Paper.....	2945	66 00
18	Johnson Service Co...	Valve.....	2946	36 50
18	E. H. Kellogg & Co...	Oil.....	2947	48 60
18	Keasbey & Mattison Co.....	Packing.....	2948	7 50
18	Leeds & Northrup Co...	Suspensions.....	2949	44 15
18	Lamp Testing Bureau.	Lamps.....	2950	11 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
18	Lehn & Fink.....	Supplies.....	2951	24 76
18	Lagonda Mfg. Co.....	Repairs.....	2952	40 00
18	Library Bureau.....	Pens and subscription.....	2953	2 00
18	Chas. E. Lauriat Co....	Books.....	2954	12 50
18	Masury Young & Co....	Oil.....	2955	20 14
18	Murphy Iron Works....	Straps.....	2956	7 00
18	F. G. Novy.....	Books.....	2957	6 00
18	Nat'l Educational As- sociation.....	Proceedings.....	2958	2 00
18	New York Botanical Garden.....	Publications.....	2959	1 75
18	Plain Dealer Pub. Co....	Advertising.....	2960	9 40
18	Remington Typewriter Co.....	Supplies.....	2961	2 90
18	Springfield Pub. Co....	Printing.....	2962	17 00
18	Smith-Premier Typ e- writer Co.....	Repairs.....	2963	2 00
18	Scioto Lime & Stone Co.....	Lime.....	2964	18 75
18	Standard Chain Co....	Iron.....	2965	3 94
24	Chas. B. Morrey.....	Cash advanced.....	2966	2 25
18	Standard Electric Co....	Equipment.....	2967	43 50
18	Star Brass Mfg. Co....	Indicators.....	2968	110 00
18	M. A. Seed Dry Plate Co.....	2 doz. plates and ex.....	2969	1 00
18	Springfield Gas Engine Co.....	Ignite head.....	2970	7 50
18	C. H. Stoelting & Co....	Clamps.....	2971	48 15
18	G. E. Stechert.....	Books.....	2972	34 68
18	Smithsonian Institute	Publication.....	2973	9 20
18	Henry Troenmer.....	Scale.....	2974	7 20
18	Toledo Newspaper Co....	Advertising.....	2975	6 00
18	Toledo Blade Co.....	Advertising.....	2976	8 65
18	Arthur H. Thomas Co....	Supplies.....	2977	113 54
18	L. M. Underwood.....	Subscription.....	2978	11 69
18	Whitall Tatum Co.....	Supplies.....	2979	18 81
18	Whitney Mfg. Co.....	Wheel.....	2980	8 00
18	Webb Sta. & Ptg. Co....	Register, etc.....	2981	32 25
18	Westinghouse Electric & Mfg. Co.....	Transfermer.....	2982	15 60
18	H. W. Wilson Co.....	Subscription.....	2983	12 00
18	R. P. Winckler.....	Binding.....	2984	76 05
18	J. E. Hagerty.....	Supplies.....	2985	5 60
18	B. B. Herrick.....	March salary.....	2986	66 68
19	Carl E. Steeb, Acct....	Pay-roll, Chemical bldg.	2987	309 99
19	Hugh Wiley.....	Plumbing.....	2988	21 00
19	Hugh Murphy.....	Plumbing.....	2989	12 00
19	C. Davis.....	Gas fitting.....	2990	25 50
21	W. H. Redhead.....	Labor.....	2991	48 00
22	Ohio Nat'l. Bank.....	Acct. of S. Calvary, Berlin, Germany.....	2992	12 25
22	Columbus Mdse. Co....	Mops and brooms.....	2993	18 40
26	W. O. Thompson.....	March salary.....	2994	416 67
26	K. H. Duncan.....	March salary.....	2995	66 66
26	E. D. Cockins.....	March salary.....	2996	66 66
26	E. R. Hubler.....	March salary.....	2997	40 00
26	Minnie Hines.....	March salary.....	2998	40 00
26	Gertrude Bellows.....	March salary.....	2999	40 00
26	W. C. McCracken.....	March salary.....	3000	150 00
26	W. Standley.....	March salary.....	3001	65 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
March 26	Wm. Case.....	March salary.....	3002	55 00
26	Benj. Le Bay.....	March salary.....	3003	55 00
26	Thos. Bonde.....	March salary.....	3004	50 00
26	Roy Pratt.....	March salary.....	3005	50 00
26	Jas. Stainbrook.....	March salary.....	3006	50 00
26	Marion Peck.....	March salary.....	3007	45 00
26	Chas. Lewis.....	March salary.....	3008	20 00
26	Norman Slee.....	March salary.....	3009	20 00
26	Geo. Rose.....	March salary.....	3010	75 00
26	Earl Kimmel.....	March salary.....	3011	25 00
26	Chas. Hicks.....	March salary.....	3012	45 00
26	G. A. Goodspeed.....	March salary.....	3013	40 00
26	John Brown.....	March salary.....	3014	15 00
26	John Brown.....	March salary.....	3015	25 00
26	W. R. Thomas.....	March salary.....	3016	40 00
26	Richard Brandon.....	March salary.....	3017	40 00
26	Wm. Whitestein.....	March salary.....	3018	40 00
26	Henry Chantler.....	March salary.....	3019	40 00
26	Wash. Townsel.....	March salary.....	3020	20 00
26	Francis Andrix.....	March salary.....	3021	30 00
26	G. C. Denney.....	March salary.....	3022	40 00
26	M. N. Cook.....	March salary.....	3023	40 00
26	Andrew Rudell.....	March salary.....	3024	40 00
26	H. M. Templin.....	March salary.....	3025	40 00
26	J. W. Brown.....	March salary.....	3026	40 00
26	C. M. Beem.....	March salary.....	3027	40 00
26	W. E. Cook.....	March salary.....	3028	40 00
26	Willis Stahl.....	March salary.....	3029	40 00
26	Joseph Black.....	March salary.....	3030	25 00
26	H. H. Hamilton.....	March salary.....	3031	12 50
26	F. E. Bentler.....	March salary.....	3032	12 50
26	V. B. Dragoo.....	March salary.....	3033	18 00
26	R. M. Martin.....	March salary.....	3034	20 00
26	John Ricketts.....	March salary.....	3035	45 00
26	James Kelley.....	March salary.....	3036	30 00
26	M. S. Harvey.....	March salary.....	3037	25 00
26	C. H. Woodruff.....	March salary.....	3038	70 00
26	J. P. Covan.....	March salary.....	3039	83 33
26	A. F. Hall.....	March salary.....	3040	73 33
26	Horner C. Price.....	March salary.....	3041	225 00
26	John W. Decker.....	March salary.....	3042	170 00
26	Chas. S. Plumb.....	March salary.....	3043	200 00
26	M. F. Miller.....	March salary.....	3044	100 00
26	D. A. Crowner.....	March salary.....	3045	66 68
26	E. F. Mangold.....	March salary.....	3046	50 00
26	Laurel L. Hill.....	March salary.....	3047	40 00
26	H. A. Weber.....	March salary.....	3048	225 00
26	Alfred Vivian.....	March salary.....	3049	150 00
26	Rudolph Hirsch.....	March salary.....	3050	60 00
26	Geo. W. Knight.....	March salary.....	3051	250 00
26	A. H. Tuttle.....	March salary.....	3052	120 00
26	Henry R. Spencer.....	March salary.....	3053	110 00
26	A. M. Bleile.....	March salary.....	3054	225 00
26	M. Dresbach.....	March salary.....	3055	80 00
26	R. J. Seymour.....	March salary.....	3056	25 00
26	J. A. Beer.....	March salary.....	3057	25 00
26	W. C. Mills.....	March salary.....	3058	40 00
26	Pearl Contellier.....	March salary.....	3059	10 00
26	J. N. Bradford.....	March salary.....	3060	210 00
26	Thos. E. French.....	March salary.....	3061	150 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
March 26	Thos. K. Lewis.....	March salary.....	3062	125 00
26	Silas Martin.....	March salary.....	3063	100 00
26	J. H. Vosskuhler.....	March salary.....	3064	120 00
26	J. S. Tidball.....	March salary.....	3065	80 00
26	Lucian Shaw.....	March salary.....	3066	30 00
26	H. C. Lord.....	March salary.....	3067	225 00
26	B. F. Maag.....	March salary.....	3068	100 00
26	Chas. B. Morrey.....	March salary.....	3069	140 00
26	W. A. Kellerman.....	March salary.....	3070	225 00
26	J. H. Shaffner.....	March salary.....	3071	130 00
26	H. H. York.....	March salary.....	3072	25 00
26	Jas. McOwen.....	March salary.....	3073	40 00
26	S. A. Norton.....	March salary.....	3074	125 00
26	W. McPherson.....	March salary.....	3075	225 00
26	W. E. Henderson.....	March salary.....	3076	140 00
26	C. W. Foulk.....	March salary.....	3077	120 00
26	M. Mumma.....	March salary.....	3078	70 00
26	E. N. Webb.....	March salary.....	3079	60 00
26	Catherine Andrews....	March salary.....	3080	60 00
26	J. A. Wilkinson.....	March salary.....	3081	30 00
26	C. G. Stewart.....	March salary.....	3082	30 00
26	C. E. Sherman.....	March salary.....	3083	180 00
26	A. H. Heller.....	March salary.....	3084	180 00
26	Frank Eno.....	March salary.....	3085	150 00
26	H. D. Brining.....	March salary.....	3086	125 00
26	W. L. Davies.....	March salary.....	3087	60 00
26	Edw. Orton, Jr.....	March salary.....	3088	200 00
26	A. V. Bleininger.....	March salary.....	3089	100 00
26	C. H. Griffin.....	March salary.....	3090	20 00
26	M. A. Stoner.....	March salary.....	3091	180 00
26	Cora Elliott.....	March salary.....	3092	25 00
26	May Secrest.....	March salary.....	3093	120 00
26	J. E. Hagerty.....	March salary.....	3094	120 00
26	C. C. Huntington.....	March salary.....	3095	30 00
26	W. E. Miller.....	March salary.....	3096	50 00
26	D. R. Major.....	March salary.....	3097	160 00
26	T. H. Haines.....	March salary.....	3098	130 00
26	W. W. Boyd.....	March salary.....	3099	200 00
26	F. C. Caldwell.....	March salary.....	3100	190 00
26	F. A. Fish.....	March salary.....	3101	\$110 00
26	Helen Lambdin.....	March salary.....	3102	11 00
26	A. C. Burrows.....	March salary.....	3103	2 25
26	J. R. Taylor.....	March salary.....	3104	150 00
26	W. H. Siebert.....	March salary.....	3105	180 00
26	E. H. McNeal.....	March salary.....	3106	100 00
26	C. S. Prosser.....	March salary.....	3107	190 00
26	J. A. Bownocker.....	March salary.....	3108	160 00
26	L. A. Rhoades.....	March salary.....	3109	225 00
26	Mrs. C. W. Mesloh.....	March salary.....	3110	160 00
26	B. A. Eisenlohr.....	March salary.....	3111	80 00
26	Sarah Barrows.....	March salary.....	3112	40 00
26	J. R. Smith.....	March salary.....	3113	225 00
26	A. W. Hodgman.....	March salary.....	3114	160 00
26	W. S. Elden.....	March salary.....	3115	160 00
26	W. R. Lazenby.....	March salary.....	3116	225 00
26	O. H. Davis.....	March salary.....	3117	83 33
26	F. E. Sanborn.....	March salary.....	3118	200 00
26	W. A. Knight.....	March salary.....	3119	120 00
26	C. P. Crowe.....	March salary.....	3120	100 00
26	All Case.....	March salary.....	3121	60 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
March 26	Robt. B. Cool.....	March salary	3122	65 00
26	W. H. Rench.....	March salary	3123	125 00
26	S. C. Derby.....	March salary	3124	150 00
26	L. A. Grigsby.....	March salary	3125	75 00
26	W. F. Hunter.....	March salary	3126	250 00
26	W. H. Page.....	March salary	3127	200 00
26	E. B. Kinhead.....	March salary	3128	130 00
26	J. A. Shanck.....	March salary	3129	100 00
26	E. O. Randall.....	March salary	3130	80 00
26	Geo. W. Rightmire..	March salary	3131	50 00
26	Florence Price.....	March salary	3132	40 00
26	Olive Jones.....	March salary	3133	145 00
26	Harriett Townsend..	March salary	3134	60 00
26	Gertrude Kellicott..	March salary	3135	80 00
26	Maude Jeffrey.....	March salary	3136	80 00
26	Martha Hartford.....	March salary	3137	50 00
26	Elizabeth Smythe.....	March salary	3138	40 00
26	Max Morton.....	March salary	3139	30 00
26	R. D. Bohannon.....	March salary	3140	225 00
26	Geo. W. McCoard.....	March salary	3141	160 00
26	J. E. Boyd.....	March salary	3142	150 00
26	K. D. Swartzel.....	March salary	3143	150 00
26	H. W. Kuhn.....	March salary	3144	110 00
26	S. E. Rasor.....	March salary	3145	100 00
26	W. E. Davis.....	March salary	3146	30 00
26	E. F. Coddington.....	March salary	3147	110 00
26	J. R. Clements.....	March salary	3148	20 00
26	W. T. Magruder.....	March salary	3149	225 00
26	E. A. Hitchcock.....	March salary	3150	175 00
26	Horace Judd.....	March salary	3151	120 00
26	R. E. Cartzdafner.....	March salary	3152	55 00
26	N. W. Lord.....	March salary	3153	200 00
26	E. E. Somermier.....	March salary	3154	110 00
26	G. O. Spitzer.....	March salary	3155	30 00
26	Gustav Bruder.....	March salary	3156	20 00
26	F. A. Ray.....	March salary	3157	200 00
26	T. B. Simon.....	March salary	3158	30 00
26	Geo. B. Kauffman.....	March salary	3159	200 00
30	C. A. Dye.....	March salary	3160	110 00
26	W. H. Scott.....	March salary	3161	225 00
26	A. E. Davies.....	March salary	3162	90 00
26	C. P. Linhart.....	March salary	3163	160 00
26	D. C. Huddleson.....	March salary	3164	80 00
26	Alma H. Wacker.....	March salary	3165	7 50
26	Maud W. Martin.....	March salary	3166	80 00
26	Lily Weeks.....	March salary	3167	27 00
26	B. F. Thomas.....	March salary	3168	225 00
26	A. D. Cole.....	March salary	3169	200 00
26	R. F. Earhart.....	March salary	3170	100 00
36	L. B. Tuckerman.....	March salary	3171	70 00
26	J. V. Denny.....	March salary	3172	250 00
26	W. L. Graves.....	March salary	3173	130 00
26	G. H. McKnight.....	March salary	3174	130 00
26	Mary A. Malloy.....	March salary	3175	30 00
26	F. J. Muirie.....	March salary	3176	30 00
26	G. Pennock.....	March salary	3177	30 00
26	B. L. Bowen.....	March salary	3178	225 00
26	C. A. Bruce.....	March salary	3179	150 00
26	E. S. Ingraham.....	March salary	3180	120 00
26	Herminie de Nagy.....	March salary	3181	30 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
March 26	D. S. White.....	March salary	3182	200 00
26	S. Sisson.....	March salary	3183	170 00
26	O. V. Brumley.....	March salary	3184	100 00
26	D. H. Udall.....	March salary	3185	145 00
26	J. Mc I. Phillips.....	March salary	3186	110 00
26	Lee W. Funk.....	March salary	3187	60 00
26	R. M. Royer.....	March salary	3188	70 00
26	Herbert Osborn.....	March salary	3189	225 00
26	J. S. Hine.....	March salary	3190	120 00
26	F. L. Landacre.....	March salary	3191	120 00
26	Max Morse.....	March salary	3192	30 00
26	J. G. Sanders.....	March salary	3193	25 00
24	Guide Publishing Co. .	March salary	3194	3 00
24	A. D. Bullock.....	March salary	3195	86 62
24	Kimball & Mathews .	March salary	3196	105 57
25	H. L. Bostater.....	March salary	3197	28 75
26	Alexis Cope.....	April salary	3198	187 50
26	Carl E. Steeb, Account- ant.....	Pay-roll for wrecking Chem- ical building.....	3199	475 03
26	C. Davies.....	Labor.....	3200	11 25
26	Hugh Murphy.....	Labor.....	3201	12 75
26	Hugh Wyllie.....	Labor.....	3202	21 00
26	Harry I. Dodson.....	Labor.....	3203	11 64
26	R. M. Rownd, P. M. .	Stamped envelopes.....	3204	10 60
28	A. B. Probert.....	Labor.....	3205	67 50
29	R. M. Rownd, P. M. .	Stamps.....	3206	17 00
29	Columbus City Tel. Co.	Moving phone	3207	3 50
29	Thos. L. Wheeler.....	Labor.....	3208	12 00
29	C. P. Linhart.....	Supplies.....	3209	4 00
30	C. A. Dye.....	Supplies.....	3210	10 07
30	A. S. Neale.....	March salary.....	3211	30 00
30	R. M. Rownd, P. M. .	Deposit.....	3212	25 00
31	D. F. Murphy.....	Labor.....	3213	6 15
31	Mildred Waters.....	Salary.....	3214	35 00
Apr. 2	Carl E. Steeb, Acct. .	Pay-roll, wrecking Chemical building.....	3215	484 37
4	Hugh Willey.....	Labor.....	3216	21 88
4	C. Davies.....	Labor.....	3217	12 75
7	D. W. McGrath.....	Est. No. 10, final Engr. bldg.	3218	3,379 15
7	D. W. McGrath.....	Est. No. 9, final, Chem. bldg.	3219	1,266 30
7	D. W. McGrath.....	Extras No. 2, Engr. bldg. .	3220	68 90
7	Lilian S. Huffman.....	Library work.....	3221	16 40
7	Ida M. Fisher.....	Assistance.....	3222	22 10
11	Helen Arms.....	Services.....	3223	14 00
11	C. Ashenburst.....	Labor.....	3224	50 90
11	Robt. Busher.....	Labor.....	3225	19 46
11	Thomas Beer.....	Labor.....	3226	90
11	H. L. Beach.....	Labor.....	3227	5 50
11	E. J. Billings.....	Labor.....	3228	11 09
11	John Brandon.....	Janitor.....	3229	31 50
11	J. E. Bard.....	Feed.....	3230	2 00
11	A. D. Bullock.....	Horses, etc.....	3231	26 55
11	E. Corbin.....	Hauling.....	3232	10 50
11	G. M. Cameron.....	Labor.....	3233	5 90
11	Louise Colton.....	Labor.....	3234	5 45
11	L. F. Chaney.....	Labor.....	3235	7 00
11	D. J. Demorest.....	Work.....	3236	2 40
11	N. C. Dysart.....	Assistance.....	3237	9 60
9	J. V. Denney.....	Expenses.....	3238	35 70

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
April 11	John Downing.....	Library work.....	3239	9 45
11	Mary A. DeCamp.....	Assistance.....	3240	6 00
11	W. O. Dean.....	Wiring.....	3241	8 44
11	D. J. Demorest.....	Supplies and labor.....	3242	5 79
11	A. D. Fitzgerald.....	Services.....	3243	7 50
11	E. E. Finney.....	Services.....	3244	9 20
11	E. M. Gorrell.....	Labor.....	3245	19 16
11	Ellsworth Gough.....	Wheeling.....	3246	49 60
11	C. C. Hatfield.....	Books.....	3247	4 00
11	E. W. Harrington.....	Labor.....	3248	5 33
11	J. B. Harshman.....	Labor.....	3249	12 10
11	E. D. Hall.....	Labor.....	3250	6 80
8	Madden, Darrah W. P. Co.....	Painting, etc.....	3251	71 50
11	True Houser.....	Labor.....	3252	15 75
11	W. W. Hackney.....	Labor.....	3253	11 06
11	Harry S. Hidden.....	Labor.....	3254	13 00
11	A. F. Hall.....	Lever fasteners.....	3255	20 00
11	John M. Harsh.....	Assistance.....	3256	6 95
11	A. L. Harrington.....	Labor.....	3257	1 00
11	Frank W. Jackson.....	Guide.....	3258	5 75
11	C. H. Kerr.....	Labor.....	3259	23 95
11	Lawrence Lowery.....	Wheeling.....	3260	35 20
11	Samuel Lowery.....	Wheeling.....	3261	49 60
11	Gretchen P. Miller.....	Services.....	3262	7 65
11	O. F. Metz.....	Janitor work.....	3263	14 18
11	Chester McClintock.....	Labor.....	3264	32 70
11	C. M. McClure.....	Labor.....	3265	6 80
11	R. M. Mark.....	Labor.....	3266	17 00
11	Clara G. Mark.....	Labor.....	3267	8 00
11	Simeon Nash.....	Labor.....	3268	8 75
11	Belle E. Norton.....	Labor.....	3269	15 95
11	Herbert Osborn.....	Book.....	3270	6 00
11	Fred W. Porter.....	Labor.....	3271	8 50
11	Marion Peck.....	Labor.....	3272	13 05
11	Frank A. Ray.....	Planes, etc.....	3273	39 50
11	W. H. Redhead.....	Labor, etc.....	3274	4 30
11	R. M. Royer.....	Expenses.....	3275	38 50
11	M. G. Roberts.....	Assistance.....	3276	5 60
11	C. W. Reeder.....	Labor.....	3277	20 91
11	R. M. Royer, Storekpr.....	Labor.....	3278	18 15
8	Sherman Wolfe.....	Labor.....	3279	50 00
11	J. A. Stiver.....	Guide.....	3280	15 83
11	Huber Seabright.....	Labor.....	3281	7 30
11	G. L. P. Shipps.....	Labor.....	3282	4 25
11	S. Sisson.....	Supplies.....	3283	2 50
11	M. A. Stoner.....	Supplies.....	3284	10 00
11	May Secrest.....	Supplies.....	3285	5 16
11	Chas. G. Savidis.....	Guide.....	3286	6 38
11	T. B. Simon.....	Expenses.....	3287	19 35
11	E. A. Sanders.....	Labor.....	3288	17 00
11	E. T. Sill.....	Labor.....	3289	8 30
11	E. E. Sommermeier.....	Lock.....	3290	1 05
11	W. O. Thompson.....	Supplies.....	3291	9 60
11	D. H. Udall.....	Sterilizer.....	3292	4 50
11	D. S. White.....	Supplies.....	3293	3 00
11	A. B. Welty.....	Labor.....	3294	12 75
11	W. P. Welch.....	Tracing.....	3295	1 75
11	H. G. Weinland.....	Labor.....	3296	20 00
11	Edwin Wallace.....	Assistance.....	3297	4 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
April 11	Geo. Washburne.....	Library work.....	3298	19 00
9	Geo. Woodward.....	Carpenter.....	3299	75 60
9	John A. Schneider.....	Carpenter.....	3300	75 60
9	Wm. Essig.....	Carpenter.....	3301	75 60
9	Moses R. Mathews.....	Carpenter.....	3302	50 40
9	Thos. O. Capell.....	Carpenter.....	3303	75 60
9	J H Randall.....	Carpenter.....	3304	70 00
9	Lee K Morris.....	Carpenter.....	3305	50 40
9	Edw Murray.....	Carpenter.....	3306	75 60
9	Lester Waltman.....	Hauling water.....	3307	8 25
9	Carl E. Steeb, Acct.....	Pay-roll, wreck. Chem. bldg	3308	513 14
9	Samuel A. Esswein.....	Est. No. 2, plumb. Vet. bldg.	3309	246 91
9	Hugh Murphy.....	Labor.....	3310	26 25
9	John T. Mack.....	Trustee expenses.....	3311	18 05
11	Carl E. Steeb, Acct.....	Pay-roll wreck. Chem. bldg	3312	17 33
11	Guy W. Mallon.....	Trustee expenses.....	3313	7 40
11	E. J. Billings.....	Campus work.....	3314	4 87
11	E. H. Bowman.....	Labor.....	3315	4 08
11	Ward Burnell.....	Labor.....	3316	2 58
11	E. C. Corbett.....	Labor.....	3317	13 12
11	W. D. Griffith.....	Labor.....	3318	55 90
11	D. L. Hurst.....	Labor.....	3319	11 15
11	Chas. Kent.....	Labor.....	3320	75
11	Edgar Martin.....	Labor.....	3321	6 15
11	F. R. Martin.....	Campus work.....	3322	67
11	J. C. Miron.....	Campus work.....	3323	24 82
11	E. E. Moore.....	Labor.....	3324	2 62
11	G. R. Nash.....	Labor.....	3325	67
11	Lester Waltman.....	Labor.....	3326	1 80
13	J S. Abbott & Co.....	Glass, locks, etc.....	3327	21 90
13	Acme Paving Co.....	Screenings.....	3328	4 20
13	Buckeye Brass Fdry.....	Castings.....	3329	5 25
13	Batterson Jec'tive Co.....	Picture rail.....	3330	2 05
13	Bowden Towel Co.....	Towels.....	3331	10 24
13	Blackwood, Green & Co.....	Boxes, etc.....	3332	65 97
13	H. Brann Sons & Co.....	Chemical supplies.....	3333	566 51
13	Columbus Supply Co.....	Plumbing.....	3334	688 17
13	Columbus Mdse. Co.....	Labels, etc.....	3335	26 89
13	Citizens Ice Co.....	Ice.....	3336	5 53
13	The H Cole Co.....	Supplies.....	3337	3 35
13	Columbus Brass Co.....	Brass rod.....	3338	8 10
11	Chas. B. Morrey.....	Dishes.....	3339	1 00
11	W. E. W. Cherry.....	Case, etc.....	3340	80 96
11	C. W. Bryant.....	Bal. due on Chem. bldg....	3341	10 00
13	Cap. City Mch. Wks....	Shaft, steel, etc.....	3342	120 99
13	Champlin Ptg. Co.....	Printing.....	3343	76 75
13	Cent. Ohio Oil Co.....	Dynamo oil.....	3344	10 05
13	Geo. D. Cross Lumber Co.....	Lumber.....	3345	78 63
13	Col'bus Plate & Window Glass Co.....	Glass.....	3346	15 30
13	Cent. Ohio Paper Co.....	Books.....	3347	80 15
13	Col'bus Forge & Iron Co.....	Anvils.....	3348	27 92
13	Columbus Hdw. Co.....	Rope.....	3349	21 14
13	Col'bus M. & M. Supply Co.....	Supplies.....	3350	11 85
13	E. Doddington & Co.....	Lumber and screens.....	3351	664 60
13	W. J. Davidson & Co.....	Oats and corn, hauling....	3352	39 50

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
April 13	Eldridge & Higgins Co.	Sugar	3353	4 96
13	Eaton Mch. Works....	Locker irons	3354	7 00
13	Elliott & Harris	Hardware	3355	4 75
13	Erner & Hopkins Co.	Supplies	3356	83 68
13	Engelke & Bigelow....	Hauling	3357	26 00
13	Ed'rd E. Fisher & Co	Ambulance	3358	3 00
13	Frederick W. Freeman	Groceries	3359	53 63
13	Frankenberg Bros....	Boxes	3360	3 00
13	Fifth Ave. Coal Co....	Hauling coal	3361	19 30
13	A. G. Geren	Supplies	3362	18 20
13	Green, Joyce Co.	Towels	3363	46 25
13	Hann & Adair	Printing	3364	22 85
13	P. Hayden Sad. Hdw. Co.	Castings	3365	26 28
13	Jeffrey Mfg. Co.	Steel and supplies	3366	9 29
13	Kinkade & Liggett Co.	Elevator	3367	250 00
13	Kauffman Latt. Co....	Chemical supplies	3368	335 41
13	John Keller	Gravel	3369	36 40
13	Kimball & Mathews....	Carbon block	3370	17 63
13	Kilbourne & Jacobs Mfg. Co.	Truck	3371	21 50
13	Kelton & Converse....	Lumber	3372	21 77
13	S. T. Knight	Labor, etc	3373	210 50
13	M. C. Lilley & Co....	Corundum	3374	1 80
13	H. W. Lentz	Moving trees	3375	60 00
13	McAllister, Mohler & Co.	Furniture cases	3376	342 74
13	A. D. McDonald	Gasoline	3377	3 45
13	J. S. Maclean	Millwork and boxes	3378	106 50
13	Monypeny - Hammond Co.	Matches and supplies	3379	6 25
13	McClelland & Co....	Paper	3380	2 35
13	E. C. Mills, Treas....	Subscription	3381	1 00
13	Moonstone Cop'g Slate Co.	Slate	3382	12 00
13	The H. Mithoff & Co...	Handles	3383	2 40
13	McDonald's Livery....	Hack hire	3384	3 00
13	Nitschke Bros	Printing, etc	3385	62 25
13	Orr, Brown & Price....	Chemicals	3386	70 22
13	James Penn	Hauling and feed	3387	7 82
13	Payne, McDonald Hd. Co.	Red lead	3388	1 93
13	Chas. J. Palmer	Boiler tops, etc	3389	95 75
13	Pletsch & Sutton	Supplies	3390	5 48
13	Reeves Bros	Locker, etc	3391	88 32
13	Thomas Ross	Soda ash	3392	22 14
13	Ruggles-Gale Co....	Books and supplies	3393	34 50
13	Schroth & Potter	Shades	3394	310 25
13	Schoedinger, Fearn & Co.	Hardware	3395	4 47
13	J. W. Smiley	Repairs	3396	8 25
13	Smith-Prem. Type. Co.	Cabinet chairs	3397	16 15
13	E. H. Sell. & Co....	Paper	3398	1 95
13	Standard Oil Co....	Oil	3399	22 67
13	Spahr & Glenn	Note books	3400	125 00
13	Taylor, Williams & Co.	Coal	3401	19 64
13	Tracy-Wells & Co....	Erasers	3402	49 80
13	Tallmadge Hdw. Co...	Hardware	3403	36 24
13	Underwood Type. Co...	Ribbons	3404	3 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
April 13	Von Gerichten Art Gls. Co.	Glass.....	3405	11 20
13	J. M. & W. Westwater	Jars and lanterns.....	3406	15 92
13	Wickliff Funk & Co.	Paper and ink.....	3407	4 00
13	Wiggins Stamp Fact.	Stamps.....	3408	1 60
13	F. L. White & Co.	Cloth, etc.....	3409	14 77
13	Jas. Westwater & Co.	Est. No. 10, final, Vet. bldg.	3410	1,580 00
13	Wm. Whitestein.....	Squirrel feed.....	3411	4 00
13	Carl E. Steeb.....	April salary.....	3412	83 33
14	H. H. York.....	Bal. of Mar. and Feb. sal.	3413	50 00
14	Ernest F. Shade.....	Guide.....	3414	4 00
16	Art Metal Const. Co.	Draw. tables.....	3415	267 50
16	Am. School of Corres.	Cyclopedia.....	3416	16 00
16	Am. Berkshire Assn.	Record.....	3417	1 00
16	American Architect.	Subscription.....	3418	3 00
16	Am. Soc. Meeh. Engrs.	Proceedings.....	3419	6 00
16	The W. H. Anderson & Co.	Reports.....	3420	47 75
16	Burrows Bros. Co.	Books.....	3421	120 01
16	Bankers Publ. Co.	Subscription.....	3422	5 00
16	Babcock & Wilcox Co.	Binders, etc.....	3423	7 50
16	Benskin Mfg. Co.	Leather filler.....	3424	3 16
16	Bausch & Lomb Opt. Co.	Apparatus.....	3425	128 13
16	Baker & Adamson Chem. Co.	Supplies.....	3426	10 19
16	J. Bishop & Co.	Electrodes.....	3427	50 63
16	Bausch & Lomb Optical Co.	Supplies.....	3428	16 78
16	Cushman Chuck Co.	Chuck.....	3429	6 60
16	W. H. Close.....	System.....	3430	3 50
16	Cleveland News Bur.	Clippings.....	3431	10 00
16	B. F. Cummins Co.	Machine.....	3432	25 00
16	Dennison Mfg. Co.	Linen, tape.....	3433	2 25
16	Detroit Caviary.....	G. pigs.....	3434	20 00
16	Engr. & Mining Jour.	Advertising.....	3435	8 29
16	Electric Appliance Co.	Switches.....	3436	3 50
16	C. H. Evans & Co.	Advertising.....	3437	5 00
16	Eimer & Amend.....	Supplies.....	3438	28 14
16	Engr. News Pub. Co.	Proceedings.....	3439	2 15
16	Edward S. Field.....	Books.....	3440	22 85
16	D. M. Ferry & Co.	Seeds, etc.....	3441	40 28
16	Foote Mineral Co.	Minerals.....	3442	12 00
16	Fairbanks, Morse & Co.	Scoop and weight.....	3443	2 18
16	J. A. Fay & Egan Co.	Saw blades.....	3444	10 68
16	Fostoria Lamp Co.	Lamps.....	3445	40 00
16	B. F. Goodrich Co.	Corks and tubing.....	3446	226 47
16	Ar. W. Hall Sci. Co.	Supplies.....	3447	7 72
16	Heller Bros. Co.	Tongs.....	3448	8 69
16	Smithsonian Institute.	Publications.....	3449	13 00
16	H. W. Johns Manville Co.	Fuses.....	3450	3 96
16	Knauth, Nachod & Kuhne.....	Books.....	3451	93
16	Leeds & Northrup Co.	Apparatus.....	3452	214 50
16	Chas. E. Lauriat Co.	Books.....	3453	5 50
16	The Laning Co.	Books.....	3454	11 50
16	Library Bureau.....	Boxes.....	3455	12 50
16	E. C. Meyer.....	Book.....	3456	1 35
16	Murphy Iron Works.	Boxes.....	3457	21 40

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
April 16	N.Y. Botanical Garden	Journal.....	3458	1 00
16	Nernst Lamp Co.....	Repairs.....	3459	35 11
16	O'Donnell Elevator Co.	Relining brake.....	3460	7 00
16	Pictorial Ptg. Co.....	Labels.....	3461	5 78
16	R. R. Bowker.....	Bulletin.....	3462	3 00
16	Cambridge Entomolog- ical Club.....	Subscription.....	3463	1 00
16	Samuel N. Rhoades...	Books.....	3464	200 55
16	G. E. Stechert.....	Books.....	3465	1,290 79
16	C. H. Stoelting Co.....	Supplies.....	3466	578 72
16	Scioto Lime & Stone Co.....	Lime.....	3467	63 75
16	Albert Sanveur.....	Book.....	3468	5 00
16	The A. W. Straub Co..	Mill.....	3469	3 80
16	F. J. Stokes Mch. Co..	Machine.....	3470	37 00
16	E. H. Sargent Co.....	Supplies.....	3471	8 30
16	Arthur H. Thomas....	Percolators.....	3472	29 28
16	Henry Troenmer.....	Weights, etc.....	3473	96 40
16	Arthur H. Thomas Co.	Instruments.....	3474	60 80
16	Edward Thompson Co.	Encyclopedia.....	3475	6 00
16	Westinghouse Mch. Co.	Bushing.....	3476	2 70
16	Whitall, Tatum Co....	Supplies.....	3477	249 08
16	The Wool Duster Co..	Duster.....	3478	20 00
16	R. P. Winckler.....	Binding.....	3479	105 10
16	Weston Elect. Inst. Co.	Voltmeter.....	3480	63 00
16	Williams, Browne & Earle.....	Slides.....	3481	86 25
16	Robert McCall.....	List names.....	3482	2 16
16	Standard Oil Co.....	Spec. Ref. Oil.....	3483	1 57
16	Metta L. Seymour.....	Salary.....	3484	35 00
16	C. C. Wilcox.....	Clerk.....	3485	5 00
18	R. M. Seward & Co..	Clay brick.....	3486	17 37
18	William Essig.....	Carpenter.....	3487	39 20
18	Thomas O. Capell.....	Carpenter.....	3488	39 20
18	George Woodward....	Carpenter.....	3489	36 40
18	Edward Murray.....	Carpenter.....	3490	39 20
18	M. R. Mathews.....	Carpenter.....	3491	39 20
18	L. K. Morris.....	Carpenter.....	3492	36 40
20	Citizens Telephone Co.	Phone rentals.....	3493	164 40
20	R. M. Rownd, P. M....	Stamped envelopes.....	3494	22 80
21	Auditor of State.....	Copies of V. M. L. Surveys..	3495	6 00
22	Murray City Coal Co..	Coal.....	3496	6,177 88
23	J. V. Denny.....	April salary.....	3497	250 00
25	W. C. McCracken.....	Pay-roll sewer Physic. bldg..	3498	64 88
25	W. O. Thompson.....	April salary.....	3499	416 67
25	Columbus Gas Co.....	Gas machine.....	3500	141 45
25	A. D. Bullock, Clerk..	Fees.....	3501	29 89
26	Columbus Water Wks.	Water rates.....	3502	1,680 77
27	H. C. Lord.....	April salary.....	3503	225 00
27	L. A. Rhoades.....	April salary.....	3504	225 00
30	K. H. Duncan.....	April salary.....	3505	66 66
30	Edith D. Cockins....	April salary.....	3506	66 66
30	E. R. Hubler.....	April salary.....	3507	40 00
30	Minnie Hines.....	April salary.....	3508	40 00
30	Gertrude Bellows....	April salary.....	3509	40 00
30	W. C. McCracken.....	April salary.....	3510	150 00
30	Wm. Standley.....	April salary.....	3511	65 00
30	Wm. Case.....	April salary.....	3512	55 00
30	Benj. Le Bay.....	April salary.....	3513	55 00
30	Thos. Bonde.....	April salary.....	3514	50 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
April 30	Roy Pratt.....	April salary.....	3515	50 00
30	Jas. Stainbrook.....	April salary.....	3516	50 00
30	Marion Peck.....	April salary.....	3517	45 00
30	Chas. Lewis.....	April salary.....	3518	20 00
30	Norman Slee.....	April salary.....	3519	20 00
30	Geo. Rose.....	April salary.....	3520	75 00
30	Earl Kimmell.....	April salary.....	3521	25 00
30	Chas. Hicks.....	April salary.....	3522	45 00
30	G. A. Goodspeed.....	April salary.....	3523	40 00
30	John Brown.....	April salary.....	3524	15 00
30	John Brown.....	April salary.....	3525	25 00
30	W. R. Thomas.....	April salary.....	3526	40 00
30	Richard Brandon.....	April salary.....	3527	40 00
30	Wm. Whitestein.....	April salary.....	3528	40 00
30	Harry Chantler.....	April salary.....	3529	40 00
30	Wash. Townsel.....	April salary.....	3530	20 00
30	Francis Andrix.....	April salary.....	3531	30 00
30	G. C. Denny.....	April salary.....	3532	40 00
30	M. W. Cook.....	April salary.....	3533	40 00
30	Andrew Rudell.....	April salary.....	3534	40 00
30	H. M. Templin.....	April salary.....	3535	40 00
30	J. W. Brown.....	April salary.....	3536	40 00
30	C. M. Beem.....	April salary.....	3537	40 00
30	W. E. Cook.....	April salary.....	3538	40 00
30	Willis Stahl.....	April salary.....	3539	40 00
30	Joseph Black.....	April salary.....	3540	25 00
30	H. H. Hamilton.....	April salary.....	3541	12 50
30	F. E. Bentler.....	April salary.....	3542	12 50
30	V. B. Drago.....	April salary.....	3543	18 00
30	R. M. Martin.....	April salary.....	3544	20 00
30	John Ricketts.....	April salary.....	3545	45 00
30	James Kelley.....	April salary.....	3546	30 00
30	M. S. Harvey.....	April salary.....	3547	25 00
30	C. H. Woodruff.....	April salary.....	3548	70 00
30	J. P. Covan.....	April salary.....	3549	83 33
30	A. F. Hall.....	April salary.....	3550	73 33
30	A. B. Probert.....	April salary.....	3551	45 00
30	H. C. Price.....	April salary.....	3552	225 00
30	John W. Decker.....	April salary.....	3553	170 00
30	Chas. S. Plumb.....	April salary.....	3554	200 00
30	M. F. Miller.....	April salary.....	3555	100 00
30	E. F. Mangold.....	April salary.....	3556	50 00
30	Laurel L. Hill.....	April salary.....	3557	40 00
30	A. S. Neale.....	April salary.....	3558	30 00
30	H. A. Weber.....	April salary.....	3559	225 00
30	Alfred Vivian.....	April salary.....	3560	150 00
30	Rudolph Hirsch.....	April salary.....	3561	60 00
30	Geo. W. Knight.....	April salary.....	3562	250 00
30	A. H. Tuttle.....	April salary.....	3563	120 00
30	Henry R. Spencer.....	April salary.....	3564	110 00
30	A. M. Bleile.....	April salary.....	3565	225 00
30	M. Dresbach.....	April salary.....	3566	80 00
30	R. J. Seymour.....	April salary.....	3567	25 00
30	J. A. Beer.....	April salary.....	3568	25 00
30	W. C. Mills.....	April salary.....	3569	40 00
30	Pearl Contellier.....	April salary.....	3570	10 00
30	Jos. N. Bradford.....	April salary.....	3571	210 00
30	Thos. E. French.....	April salary.....	3572	150 00
30	Thos. K. Lewis.....	April salary.....	3573	125 00
30	Silas Martin.....	April salary.....	3574	100 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
April 30	J. H. Vosskuheler.....	April salary.....	3575	120 00
30	J. S. Tidball.....	April salary.....	3576	80 00
30	Lucian Shaw.....	April salary.....	3577	30 00
30	B. F. Maag.....	April salary.....	3578	100 00
30	C. B. Morrey.....	April salary.....	3579	140 00
30	W. A. Kellerman.....	April salary.....	3580	225 00
30	J. H. Schaffner.....	April salary.....	3581	130 00
30	Jas. McOwen.....	April salary.....	3582	40 00
30	H. H. York.....	April salary.....	3583	50 00
30	S. A. Norton.....	April salary.....	3584	125 00
30	Wm. McPherson.....	April salary.....	3585	225 00
30	W. E. Henderson.....	April salary.....	3586	140 00
30	Chas. W. Foulk.....	April salary.....	3587	120 00
30	M. Mumma.....	April salary.....	3588	70 00
30	E. N. Webb.....	April salary.....	3589	60 00
30	Catherine Andrews.....	April salary.....	3590	60 00
30	J. A. Wilkinson.....	April salary.....	3591	30 00
30	C. G. Stewart.....	April salary.....	3592	30 00
30	C. E. Sherman.....	April salary.....	3593	180 00
30	A. H. Heller.....	April salary.....	3594	180 00
30	Frank Eno.....	April salary.....	3595	150 00
30	H. D. Brining.....	April salary.....	3596	125 00
30	Edward Orton, Jr.....	April salary.....	3097	200 00
30	A. V. Bleininger.....	April salary.....	3098	100 00
30	C. H. Griffin.....	April salary.....	3599	20 00
30	M. A. Stoner.....	April salary.....	3600	180 00
30	Cora Elliott.....	April salary.....	3601	25 00
30	May Secrest.....	April salary.....	3602	120 00
30	J. E. Hagerty.....	April salary.....	3603	120 00
30	C. C. Huntington.....	April salary.....	3604	30 00
30	W. E. Miller.....	April salary.....	3605	50 00
30	D. R. Major.....	April salary.....	3606	160 00
30	T. H. Haines.....	April salary.....	3607	130 00
30	W. W. Boyd.....	April salary.....	3608	200 00
30	F. C. Caldwell.....	April salary.....	3609	190 00
30	F. A. Fish.....	April salary.....	3610	110 00
30	Helen Lambdin.....	April salary.....	3611	11 00
30	A. C. Burrows.....	April salary.....	3612	225 00
30	J. R. Taylor.....	April salary.....	3613	150 00
30	W. H. Siebert.....	April salary.....	3614	180 00
30	E. H. McNeal.....	April salary.....	3615	100 00
30	Chas. S. Prosser.....	April salary.....	3616	190 00
30	J. A. Bownocker.....	April salary.....	3617	160 00
30	B. A. Fisenlohr.....	April salary.....	3618	80 00
30	Sarah Barrows.....	April salary.....	3619	40 00
30	Geo. B. Viles.....	April salary.....	3620	120 00
30	Mrs. C. W. Mesloh.....	April salary.....	3621	40 00
30	J. R. Smith.....	April salary.....	3622	225 00
30	A. W. Hodgman.....	April salary.....	3623	160 00
30	W. S. Elden.....	April salary.....	3624	160 00
30	W. R. Lazenby.....	April salary.....	3625	225 00
30	V. H. Davis.....	April salary.....	3626	83 33
30	F. E. Sanborn.....	April salary.....	3627	200 00
30	W. A. Knight.....	April salary.....	3628	120 00
30	C. P. Crowe.....	April salary.....	3629	100 00
30	All Case.....	April salary.....	3630	60 00
30	Robt. B. Cool.....	April salary.....	3631	65 00
30	W. H. Rench.....	April salary.....	3632	125 00
30	S. C. Derby.....	April salary.....	3633	150 00
30	L. A. Grigsby.....	April salary.....	3634	75 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
April 30	W. F. Hunter.....	April salary.....	3635	250 00
30	W. H. Page.....	April salary.....	3636	200 00
30	E. B. Kinkead.....	April salary.....	3637	130 00
30	J. A. Schauck.....	April salary.....	3638	100 00
30	E. O. Randall.....	April salary.....	3639	80 00
30	Geo. W. Rightmire.....	April salary.....	3640	50 00
30	Florence Price.....	April salary.....	3641	40 00
30	Smith W. Bennett.....	April salary.....	3642	60 00
30	Olive Jones.....	April salary.....	3643	145 00
30	Harriett Townshend.....	April salary.....	3644	60 00
30	Gertrude Kellicott.....	April salary.....	3645	80 00
30	Maude Jeffrey.....	April salary.....	3646	80 00
30	Martha Hartford.....	April salary.....	3647	50 00
30	Elizabeth Smythe.....	April salary.....	3648	40 00
30	Max Morton.....	April salary.....	3649	30 00
30	R. D. Bohannon.....	April salary.....	3650	225 00
30	Geo. W. McCoard.....	April salary.....	3651	160 00
30	James E. Boyd.....	April salary.....	3652	150 00
30	K. D. Swartzel.....	April salary.....	3653	150 00
30	H. W. Kuhn.....	April salary.....	3654	110 00
30	S. E. Rasor.....	April salary.....	3655	100 00
30	W. E. Davis.....	April salary.....	3656	30 00
30	E. F. Coddington.....	April salary.....	3657	110 00
30	J. R. Clements.....	April salary.....	3658	20 00
30	W. T. Magruder.....	April salary.....	3659	225 00
30	E. A. Hitchcock.....	April salary.....	3660	175 00
30	Horace Judd.....	April salary.....	3661	120 00
30	R. E. Cartzdafner.....	April salary.....	3662	55 00
30	N. W. Lord.....	April salary.....	3663	200 00
30	E. F. Sommermeier.....	April salary.....	3664	110 00
30	T. B. Simon.....	April salary.....	3665	30 00
30	Gustav Bruder.....	April salary.....	3666	20 00
30	F. A. Ray.....	April salary.....	3667	200 00
30	T. B. Simon.....	April salary.....	3668	30 00
30	Geo. B. Kauffman.....	April salary.....	3669	200 00
30	C. A. Dye.....	April salary.....	3670	110 00
30	W. H. Scott.....	April salary.....	3671	225 00
30	A. H. Davies.....	April salary.....	3672	90 00
30	C. P. Linhart.....	April salary.....	3673	160 00
30	D. C. Huddleson.....	April salary.....	3674	80 00
30	Alma H. Wacker.....	April salary.....	3675	7 50
30	Maude W. Martin.....	April salary.....	3676	80 00
30	Lily Weeks.....	April salary.....	3677	26 00
30	B. F. Thomas.....	April salary.....	3678	225 00
30	A. D. Cole.....	April salary.....	3679	200 00
30	R. F. Earhart.....	April salary.....	3680	100 00
30	L. B. Tuckerman.....	April salary.....	3681	70 00
30	W. L. Graves.....	April salary.....	3682	130 00
30	G. H. McKnight.....	April salary.....	3683	130 00
30	Mary A. Malloy.....	April salary.....	3684	30 00
30	F. J. Muirie.....	April salary.....	3685	30 00
30	G. Pennock.....	April salary.....	3686	30 00
30	B. L. Bowen.....	April salary.....	3687	225 00
30	C. A. Bruce.....	April salary.....	3688	150 00
30	E. S. Ingraham.....	April salary.....	3689	120 00
30	Herminie de Nagy.....	April salary.....	3690	30 00
30	D. S. White.....	April salary.....	3691	200 00
30	S. Sisson.....	April salary.....	3692	170 00
30	O. V. Brumley.....	April salary.....	3693	100 00
30	D. H. Udall.....	April salary.....	3694	145 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
April 30	J. McI. Phillips.....	April salary.....	3695	110 00
30	Lee W. Funk.....	April salary.....	3696	60 00
30	R. M. Royer.....	April salary.....	3697	70 00
30	Herbert Osborn.....	April salary.....	3698	225 00
30	J. S. Hine.....	April salary.....	3699	120 00
30	F. L. Landacre.....	April salary.....	3700	120 00
30	Max Morse.....	April salary.....	3701	30 00
30	J. G. Sanders.....	April salary.....	3702	25 00
30	Mildred Waters.....	April salary.....	3703	35 00
30	Metta Seymour.....	April salary.....	3704	15 00
29	C. A. Melick.....	April salary.....	3705	60 00
30	W. C. McCracken.....	Physics bldg.....	3706	18 63
May 2	Alexis Cope.....	May salary.....	3707	187 50
3	C. U. Telephone Co....	Phone rentals.....	3708	20 00
6	Alex Argo.....	Labor.....	3709	60 00
6	C. Ashenhurst.....	Labor.....	3710	40 00
6	Frank E. Bentler.....	Labor.....	3711	18 63
6	R. F. Busher.....	Labor.....	3712	2 38
6	Florence Bell.....	Labor.....	3713	3 00
6	H. L. Bostater.....	Labor.....	3714	9 00
6	J. E. Bard.....	Labor.....	3715	3 00
6	E. H. Bauman.....	Labor.....	3716	3 75
6	S. Bittle.....	Labor.....	3717	1 50
6	W. K. Burnell.....	Labor.....	3718	4 50
6	Robt. F. Busher.....	Labor.....	3719	16 50
6	O. V. Brumley.....	Labor.....	3720	2 25
6	R. B. Bareck.....	Labor.....	3721	33 60
6	E. J. Billings.....	Labor.....	3722	7 75
6	W. W. Boyd.....	Expenses.....	3723	88 20
6	Raymond Breman.....	Services.....	3724	5 00
6	A. D. Bullock.....	Horses.....	3725	20 00
6	A. C. Barrows.....	Supplies.....	3726	2 83
6	A. D. Bullock.....	Supplies.....	3727	28 40
6	Ira J. Condit.....	Labor.....	3728	9 75
6	E. S. Clements.....	Labor.....	3729	24 00
6	John Downing.....	Labor.....	3730	7 50
6	Effie Duncan.....	Labor.....	3731	9 60
6	R. H. Demorest.....	Assistance.....	3732	3 60
6	C. M. Davis.....	Labor.....	3733	1 50
6	J. D. Davis.....	Assistance.....	3734	6 60
6	J. A. Beer.....	Supplies.....	3735	11 34
6	W. O. Dean.....	Labor.....	3736	5 50
6	J. V. Denney.....	Expense.....	3737	12 50
6	L. W. Funk.....	Labor.....	3738	20 10
6	Ida May Fisher.....	Services.....	3739	19 80
6	Ellsworth Gough.....	Labor.....	3740	48 00
6	Melle W. Glass.....	Services.....	3741	3 14
6	L. F. Gehres.....	Labor.....	3742	44 61
6	E. L. Glocken.....	Labor.....	3743	4 05
6	W. F. Hunter.....	Stamps.....	3744	5 00
6	R. E. Holm.....	Labor.....	3745	12 35
6	John M. Harsh.....	Labor.....	3746	2 25
6	Lilian Huffman.....	Services.....	3747	21 20
6	True Houser.....	Labor.....	3748	4 20
6	E. A. Hitchcock.....	Supplies.....	3749	4 35
6	Horace Judd.....	Supplies.....	3750	3 50
6	Margaret A. Knight....	Services.....	3751	3 14
6	C. H. Kerr.....	Labor.....	3752	13 90
6	Maud E. Lyon.....	Labor.....	3753	1 60
6	Philip Lacey.....	Labor.....	3754	48 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
May	6 Samuel Lowery.....	Labor.....	3755	48 00
6	W. R. Lazenby.....	Supplies.....	3756	1 25
6	R. L. Lee.....	Labor.....	3757	5 10
6	T. W. Lang.....	Labor.....	3758	17 20
6	E. E. Moore.....	Labor.....	3759	7 80
6	C. McClintock.....	Labor.....	3760	16 80
6	O. F. Metz.....	Labor.....	3761	9 71
6	Clara G. Mark.....	Labor.....	3762	13 50
6	R. M. Mark.....	Labor.....	3763	7 13
6	Belle E. Norton.....	Services.....	3764	13 04
6	G. R. Nash.....	Labor.....	3765	5 77
6	Simeon Nash.....	Labor.....	3766	12 45
6	T. J. Outen.....	Binding.....	3767	142 86
6	F. W. Porter.....	Supplies.....	3768	9 00
6	Marion Peck.....	Labor.....	3769	9 45
6	Helen Powell.....	Services.....	3770	7 60
6	Chas. W. Reeder.....	Library.....	3771	10 79
6	M. G. Roberts.....	Services.....	3772	11 70
6	J. H. Randall.....	Carpenter.....	3773	61 60
6	W. H. Redhead.....	Labor.....	3774	5 20
6	C. E. Sherman.....	Supplies.....	3775	16 95
6	John A. Schneider.....	Supplies.....	3776	61 60
6	Jas. G. Sanders.....	Labor.....	3777	1 90
6	S. Sisson.....	Articles.....	3778	4 40
6	Ch. G. Savidis.....	Labor.....	3779	8 45
6	Ernest F. Shade.....	Guide.....	3780	5 25
6	J. A. Stiver.....	Guide.....	3781	17 70
6	F. W. Speer.....	Labor.....	3782	4 40
6	May Secrest.....	Supplies.....	3783	6 80
6	D. H. Udall.....	Supplies.....	3784	4 68
6	C. H. Woodruff.....	Supplies.....	3785	1 50
6	D. S. White.....	Materials.....	3786	1 92
6	Sherman Wolfe.....	Labor.....	3787	50 00
6	Lester Waltman.....	Hauling water.....	3788	6 00
6	A. B. Welty.....	Labor.....	3789	15 00
6	Geo. Washburne.....	Library.....	3790	10 65
6	L. Veit & Co.....	Repairing.....	3791	63 15
6	American Bridge Co.....	Angle iron.....	3792	1 68
6	Artura Photo Paper Co.....	Supplies.....	3793	10 50
6	Am. Dist. Tele. Co.....	Night watch and fire alarm service.....	3794	259 51
6	Bucher Engv. & Mfg. Co.....	Halftone.....	3795	1 00
6	H. Brown Sons & Co.....	Supplies.....	3796	275 80
6	Bowden Towel Supply Co.....	Towels.....	3797	123 97
6	Blackwood, Green & Co.....	Hardware.....	3798	16 99
6	Postal Tel. Cable Co.....	Telegrams.....	3799	1 47
6	E. A. Cole & Co.....	Coal.....	3800	8 38
6	Bryce Bros. & Co.....	Supplies.....	3801	26 25
6	Cross Lumber Co.....	Lumber.....	3802	55 64
6	Capital City Mch. Wks.....	Supplies.....	3803	20 90
6	Cent. Ohio Paper Co.....	Paper.....	3804	2 00
6	Cent. Ohio Oil Co.....	Oil.....	3805	10 17
6	Champlin Ptg. Co.....	Printing.....	3806	151 50
6	Columbus Photo Sup.....	Supplies.....	3807	3 75
6	Vogelgesang Fur. Co.....	Grate repairs.....	3808	4 02
6	Columbus Sewer Pipe Co.....	Pipe.....	3809	34 90

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
May 6	Columbus Supply Co.	Supplies.....	3810	83 44
6	E. Doddington & Co.	Lumber and balusters.....	3811	48 15
6	S. M. Dickerson & Son.	Hauling.....	3812	4 00
6	Engelke & Bigelow.....	Hauling.....	3813	81 82
6	Engelke & Bigelow.....	Hauling.....	3814	43 37
6	Elect. Sup. & Const. Co.	Fans.....	3815	30 22
6	Erner & Hopkins.....	Supplies.....	3816	4 13
6	F. W. Freeman.....	Groceries.....	3817	29 69
6	Frankenberg Bros.....	Trays.....	3818	8 50
6	Hann & Adair.....	Printing.....	3819	11 05
6	John Immel.....	Repairs.....	3820	26 35
6	Jeffrey Mfg. Co.....	Castings.....	3821	30 94
6	Kelton & Converse.....	Lumber.....	3822	22 91
6	Kimball & Mathews.....	Plates, etc.....	3823	83 25
6	Kauffman & Lattimer Co.	Chem. supplies.....	3824	291 09
6	Lehman & Dickson.....	Repairs.....	3825	3 00
6	J. J. Marvin.....	Mill work.....	3826	670 70
6	Madden, Darrah W. P. Co.	Painting.....	3827	137 65
6	W. H. Miller Co.....	Pipe and fittings.....	3828	50 68
6	The H. Mithoff Co.....	Supplies.....	3829	5 84
6	McAllister, Mohler Co.	Furniture.....	3830	39 15
6	Murray City Coal Co.	Coal.....	3831	1,877 62
6	Nitschke Bros.....	Printing.....	3832	23 62
6	Orr, Brown & Price.....	Supplies.....	3833	12 01
6	Payne, McDonald Hd. Co.	Supplies.....	3834	64 53
6	James Penn.....	Oats.....	3835	18 05
6	Chas. J. Palmer.....	Supplies.....	3836	160 30
6	Pure Milk Co.....	Milk.....	3837	6 40
6	Pletsch & Sutton.....	Groceries.....	3838	9 55
6	Thomas Ross.....	Soda ash.....	3839	25 16
6	Schroth & Potter.....	Shades.....	3840	1 80
6	Harry E. Smith.....	Printing.....	3841	21 10
6	Seraphim Bl'k Book Co	Binding.....	3842	99 80
6	Schoedinger, Fearn & Co.	Hardware, etc.....	3843	3 57
6	W. H. Snyder.....	Machine.....	3844	35 00
6	Spahr & Glenn.....	Printing.....	3845	21 50
6	Standard Oil Co.....	Oil, etc.....	3846	10 32
6	Tallmadge Hdw. Co.....	Hardware.....	3847	79 92
6	Taylor, Williams & Co.	Coal.....	3848	16 46
6	Edward C. Turner.....	Books.....	3849	12 00
6	Tracy-Wells & Co.....	Crayons and erasers.....	3850	8 20
6	F. B. Toothaker.....	Printing.....	3851	94 60
6	J. M. & W. Westwater..	Slate jars.....	3852	7 00
6	Williams-Adair Mdse. Co.	Jars.....	3853	1 95
6	Williams Studio.....	Mech.....	3854	12 77
6	D. W. McGrath.....	Bal. due on Engrs. bldg.....	3855	30 00
6	D. W. McGrath.....	Est. No. 1, Physics bldg.....	3856	3,675 00
6	Geo. R. Rose.....	Cash advanced.....	3857	1 50
6	Thurston Harris.....	Labor.....	3858	7 50
6	R. W. Roberts.....	Labor.....	3859	8 75
6	M. Dresbach.....	May and June salary.....	3860	160 00
6	John T. Mack.....	Expenses.....	3861	29 25
6	J. McLain Smith.....	Expenses.....	3862	23 15
6	Mrs. J. Patterson.....	Meals.....	3863	8 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
May 6	The W. H. Anderson Co.	Reports.....	3864	17 65
6	Am. Journal of Physiology	Book.....	3865	5 00
6	D. L. Bates & Bro. Co.	Fans.....	3866	19 80
6	Baker & Adamson Chem. Co.	Chemicals.....	3867	2 88
6	Bausch & Lomb Optical Co.	Apparatus.....	3868	12 25
6	Barrett Mfg. Co.	Benzol.....	3869	3 50
6	Burrows Bros. Co.	Books.....	3870	65 38
6	J. Carbreth.	Plates.....	3871	1 62
6	Cleveland News Bur.	Services.....	3872	5 00
6	Crosby Steam Gauge & Valve Co.	Valves.....	3873	3 23
6	Eureka Testing Mach. Co.	Moulds, sieves.....	3874	180 00
6	Eimer & Amend.	Exhibits.....	3875	5 25
6	Elect. Storage Battery Co.	Supplies.....	3876	33 50
6	Emil Greiner.	Tubes.....	3877	2 85
6	Ginn & Co.	Transactions.....	3878	2 00
6	Chas. Graham.	Cylinders, etc.....	3879	16 15
6	Howard University.	Telegrams.....	3880	4 89
6	S. Hawkrige.	Cylinder.....	3881	11 28
6	E. H. Kellogg & Co.	Oil.....	3882	45 00
6	Library Bureau.	Pins.....	3883	12 00
6	Lake Superior Mining Inst.	Books.....	3884	5 75
6	E. S. Welch.	Trees.....	3885	41 81
6	J. E. Armstrong, Treas.	Books.....	3886	2 00
6	The Palmer Co.	Subscription.....	3887	3 00
6	Rogers & Pyatt.	Shellac.....	3888	5 00
6	E. H. Sargent & Co.	Lamps.....	3889	17 85
6	Swing Type Stand Co.	Stand.....	3890	4 00
6	G. E. Stechert.	Books.....	3891	51 87
6	C. H. Stoelting Co.	Supplies.....	3892	453 99
6	Henry Troenmer.	Repairs.....	3893	28 50
6	Arthur H. Thomas Co.	Supplies.....	3894	1,502 76
6	Wagner Elect. Mfg. Co.	Meter repairs.....	3895	4 00
6	Williams, Brown & Earle.	Slides.....	3896	53 50
6	Webb Sta. & Ptg. Co.	Supplies.....	3897	6 40
6	W. D. Griffith.	Campus work.....	3898	48 40
6	D. L. Hurst.	Labor.....	3899	30 50
6	J. C. Merion.	Labor.....	3900	27 00
10	A. D. Bullock.	Fees Vet. C'Tk.....	3901	39 84
11	Earl Kimmell.	Salary.....	3902	6 00
6	Helen E. Burgess.	Labor.....	3903	5 62
14	C. H. Griffin.	Fees Spring and Winter term	3904	23 00
14	W. U. Telegraph Co.	Telegrams.....	3905	5 22
18	D. J. Demorest.	Labor.....	3906	17 50
19	L. F. Sater.	Services.....	3907	60 00
19	Peters, Burns & Pretzinger.	Architect fee, Physics bldg....	3908	2,000 00
21	Commercial Bull. Co.	Bond adv.....	3909	5 65
28	W. O. Thompson.	May salary.....	3910	416 67
28	Carl E. Steeb.	May salary.....	3911	83 33
28	Edith D. Cockins.	May salary.....	3912	66 66
28	K. H. Duncan.	May salary.....	3913	66 66

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
May 28	E. R. Hubler.....	May salary.....	3914	40 00
28	Minnie Hines.....	May salary.....	3915	40 00
28	Gertrude Bellows.....	May salary.....	3916	40 00
28	W. C. McCracken.....	May salary.....	3917	150 00
28	Wm. Standley.....	May salary.....	3918	65 00
28	Wm. Case.....	May salary.....	3919	55 00
28	Lester Waltman.....	Labor.....	3920	8 10
28	Benj. Le Bay.....	May salary.....	3921	55 00
28	Thos. Boude.....	May salary.....	3922	50 00
28	Roy Pratt.....	May salary.....	3923	50 00
28	Jas. Stainbrook.....	May salary.....	3924	50 00
28	Marion Peck.....	May salary.....	3925	45 00
28	Chas. Lewis.....	May salary.....	3926	20 00
28	Norman Slee.....	May salary.....	3927	20 00
28	George Rose.....	May salary.....	3928	75 00
28	Guy Murphy.....	May salary.....	3929	19 00
28	Chas. Hicks.....	May salary.....	3930	45 00
28	G. A. Goodspeed.....	May salary.....	3931	40 00
28	John Brown.....	May salary.....	3932	25 00
28	John Brown.....	May salary.....	3933	15 00
28	W. R. Thomas.....	May salary.....	3934	40 00
28	Richard Brandon.....	May salary.....	3935	40 00
28	Wm. Whitestein.....	May salary.....	3936	40 00
28	Harry Chantler.....	May salary.....	3937	40 00
25	Wash. Townsel.....	May salary.....	3938	20 00
28	Francis Andrix.....	May salary.....	3939	30 00
28	G. C. Denny.....	May salary.....	3940	40 00
28	M. N. Cook.....	May salary.....	3941	40 00
28	Andrew Rudell.....	May salary.....	3942	40 00
28	H. M. Templin.....	May salary.....	3943	40 00
28	J. W. Brown.....	May salary.....	3944	40 00
28	C. M. Beem.....	May salary.....	3945	40 00
28	Wm. E. Cook.....	May salary.....	3946	40 00
28	Willis Stahl.....	May salary.....	3947	40 00
28	Joseph Black.....	May salary.....	3948	25 00
28	H. H. Hamilton.....	May salary.....	3949	12 50
28	F. E. Bentler.....	May salary.....	3950	12 50
28	V. B. Dragoo.....	May salary.....	3951	18 00
28	R. M. Martin.....	May salary.....	3952	20 00
28	John Ricketts.....	May salary.....	3953	45 00
28	James Kelley.....	May salary.....	3954	30 00
28	M. S. Harvey.....	May salary.....	3955	25 00
28	C. H. Woodruff.....	May salary.....	3956	70 00
28	J. P. Covan.....	May salary.....	3957	83 33
28	A. F. Hall.....	May salary.....	3958	73 33
28	A. B. Probert.....	May salary.....	3959	45 00
28	H. C. Price.....	May salary.....	3960	225 00
28	John W. Decker.....	May salary.....	3961	170 00
28	Chas. S. Plumb.....	May salary.....	3962	200 00
28	M. F. Miller.....	May salary.....	3963	100 00
28	E. F. Mangold.....	May salary.....	3964	50 00
28	Laurel L. Hill.....	May salary.....	3965	40 00
28	A. S. Neale.....	May salary.....	3966	30 00
28	H. A. Weber.....	May salary.....	3967	225 00
28	A. D. Bullock.....	Fees Vet. Clinic.....	3968	26 14
28	Alfred Vivian.....	May salary.....	3969	150 00
28	Rudolph Hirsch.....	May salary.....	3970	60 00
28	Geo. W. Knight.....	May salary.....	3971	250 00
28	A. H. Tuttle.....	May salary.....	3972	120 00
28	Henry R. Spencer.....	May salary.....	3973	110 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
May 28	A. M. Bleile.....	May salary.....	3974	225 00
28	R. J. Seymour.....	May salary.....	3975	25 00
28	J. A. Beer.....	May salary.....	3976	25 00
28	W. C. Mills.....	May salary.....	3977	40 00
28	Pearl Contellier.....	May salary.....	3978	10 00
28	Jos. N. Bradford.....	May salary.....	3979	210 00
28	Thos. E. French.....	May salary.....	3980	150 00
28	Thos. K. Lewis.....	May salary.....	3981	125 00
28	Silas Martin.....	May salary.....	3982	100 00
28	J. H. Vosskuehler.....	May salary.....	3983	120 00
28	J. S. Tidball.....	May salary.....	3984	80 00
28	Lucian Shaw.....	May salary.....	3985	30 00
28	H. C. Lord.....	May salary.....	3986	225 00
28	B. F. Maag.....	May salary.....	3987	100 00
28	Chas. B. Morrey.....	May salary.....	3988	140 00
28	W. A. Kellerman.....	May salary.....	3989	225 00
28	J. H. Shaffner.....	May salary.....	3990	130 00
28	Jas. McOwen.....	May salary.....	3991	40 00
28	H. H. York.....	May salary.....	3992	50 00
28	S. A. Norton.....	May salary.....	3993	125 00
28	Wm. McPherson.....	May salary.....	3994	225 00
28	W. E. Henderson.....	May salary.....	3995	140 00
28	C. W. Foulk.....	May salary.....	3996	120 00
28	M. Mumma.....	May salary.....	3997	70 00
28	E. N. Webb.....	May salary.....	3998	60 00
28	Catherine Andrews.....	May salary.....	3999	60 00
28	J. A. Wilkinson.....	May salary.....	4000	30 00
28	C. G. Stewart.....	May salary.....	4001	30 00
28	C. E. Sherman.....	May salary.....	4002	180 00
28	A. H. Heller.....	May salary.....	4003	180 00
28	Frank Eno.....	May salary.....	4004	150 00
28	H. D. Brining.....	May salary.....	4005	125 00
28	Edw. Orton, Jr.....	May salary.....	4006	200 00
28	O. V. Bleininger.....	May salary.....	4007	100 00
28	C. H. Griffin.....	May salary.....	4008	20 00
28	M. A. Stoner.....	May salary.....	4009	180 00
28	Cora Elliott.....	May salary.....	4010	25 00
28	May Secrest.....	May salary.....	4011	120 00
28	J. E. Hagerty.....	May salary.....	4012	120 00
28	C. C. Huntington.....	May salary.....	4013	30 00
28	W. E. Miller.....	May salary.....	4014	50 00
28	W. E. Miller.....	May salary.....	4015	150 00
28	German-Am. Pub. Co..	Advertising.....	4016	50 00
28	J. E. Hagerty.....	Salary.....	4017	400 00
28	D. R. Major.....	May salary.....	4018	160 00
28	T. H. Haines.....	May salary.....	4019	130 00
28	W. W. Boyd.....	May salary.....	4020	200 00
28	F. C. Caldwell.....	May salary.....	4021	190 00
28	F. A. Fish.....	May salary.....	4022	110 00
28	Helen Lambdin.....	May salary.....	4023	11 00
28	A. C. Barrows.....	May salary.....	4024	225 00
28	J. R. Taylor.....	May salary.....	4025	150 00
28	W. H. Siebert.....	May salary.....	4026	180 00
28	E. H. McNeal.....	May salary.....	4027	100 00
28	Chas. S. Prosser.....	May salary.....	4028	190 00
28	J. A. Bownocker.....	May salary.....	4029	160 00
28	L. A. Rhoades.....	May salary.....	4030	225 00
28	B. A. Eisenlohr.....	May salary.....	4031	80 00
28	Sarah Barrows.....	May salary.....	4032	40 00
28	Geo. V. Viles.....	May salary.....	4033	120 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
May 28	Mrs. C. W. Mesloh.....	May salary.....	4034	40 00
28	J. R. Smith.....	May salary.....	4035	225 00
28	A. W. Hodgman.....	May salary.....	4036	160 00
28	W. S. Elden.....	May salary.....	4037	160 00
28	W. R. Lazenby.....	May salary.....	4038	225 00
28	V. H. Davis.....	May salary.....	4039	83 33
28	F. E. Sanborn.....	May salary.....	4040	200 00
28	W. A. Knight.....	May salary.....	4041	120 00
28	C. P. Crowe.....	May salary.....	4042	100 00
28	All Case.....	May salary.....	4043	60 00
28	Robt. B. Cool.....	May salary.....	4044	65 00
28	W. H. Rensch.....	May salary.....	4045	125 00
28	S. C. Derby.....	May salary.....	4046	150 00
28	L. A. Grigsby.....	May salary.....	4047	75 00
28	W. F. Hunter.....	May salary.....	4048	250 00
28	W. H. Page.....	May salary.....	4049	200 00
28	E. B. Kinhead.....	May salary.....	4050	130 00
28	John A. Schauack.....	May salary.....	4051	100 00
28	E. O. Randall.....	May salary.....	4052	80 00
28	Geo. W. Rightmire.....	May salary.....	4053	50 00
28	Florence Price.....	May salary.....	4054	40 00
28	Smith W. Bennett.....	May salary.....	4055	120 00
28	Olive B. Jones.....	May salary.....	4056	145 00
28	Harriett Townshend.....	May salary.....	4057	60 00
28	Gertrude Kellicott.....	May salary.....	4058	80 00
28	Maude Jeffrey.....	May salary.....	4059	80 00
28	Martha Hartford.....	May salary.....	4060	50 00
28	Elizabeth Smythe.....	May salary.....	4061	40 00
28	Max Morton.....	May salary.....	4062	30 00
28	R. D. Bohannon.....	May salary.....	4063	225 00
28	Geo. W. McCoard.....	May salary.....	4064	160 00
28	J. E. Boyd.....	May salary.....	4065	150 00
28	K. D. Swartzel.....	May salary.....	4066	150 00
28	H. W. Kuhn.....	May salary.....	4067	110 00
28	S. E. Rasor.....	May salary.....	4068	100 00
28	W. E. Davis.....	May salary.....	4069	30 00
28	E. F. Coddington.....	May salary.....	4070	110 00
28	J. R. Clements.....	May salary.....	4071	20 00
28	W. T. Magruder.....	May salary.....	4072	225 00
28	E. A. Hitchcock.....	May salary.....	4073	175 00
28	Horace Judd.....	May salary.....	4074	120 00
28	R. E. Cartzdafner.....	May salary.....	4075	55 00
28	N. W. Lord.....	May salary.....	4076	200 00
28	E. E. Somermeier.....	May salary.....	4077	110 00
28	Gustav Bruder.....	May salary.....	4078	20 00
28	F. A. Ray.....	May salary.....	4079	200 00
28	Geo. B. Kauffman.....	May salary.....	4080	200 00
28	C. A. Dye.....	May salary.....	4081	110 00
28	W. H. Scott.....	May salary.....	4082	225 00
28	A. E. Davies.....	May salary.....	4083	90 00
28	C. P. Linhart.....	May salary.....	4084	160 00
28	D. C. Huddleson.....	May salary.....	4085	80 00
28	Alma H. Wacker.....	May salary.....	4086	7 50
28	Maude W. Martin.....	May salary.....	4087	80 00
28	Lily Weeks.....	May salary.....	4088	26 00
28	B. F. Thomas.....	May salary.....	4089	225 00
28	A. D. Cole.....	May salary.....	4090	200 00
28	R. F. Earhart.....	May salary.....	4091	100 00
28	L. B. Tuckerman.....	May salary.....	4092	70 00
28	J. V. Denney.....	May salary.....	4093	250 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
May	28 W. L. Graves.....	May salary.....	4094	130 00
	28 G. H. McKnight.....	May salary.....	4095	130 0
	28 Mary A. Malloy.....	May salary.....	4096	30 0
	28 F. J. Muirie.....	May salary.....	4097	30 00
	28 G. Pennock.....	May salary.....	4098	30 00
	28 R. M. Rownd, P. M....	May salary.....	4099	40 00
	28 B. L. Bowen.....	May salary.....	4100	225 00
	28 Chas. A. Bruce.....	May salary.....	4101	150 00
	28 E. S. Ingraham.....	May salary.....	4102	120 00
	28 Herminie de Nagy.....	May salary.....	4103	30 00
	28 D. S. White.....	May salary.....	4104	200 00
	28 S. Sisson.....	May salary.....	4105	170 00
	28 O. V. Brumley.....	May salary.....	4106	100 00
	28 D. H. Udall.....	May salary.....	4107	145 00
	28 J. McI. Phillips.....	May salary.....	4108	110 00
	28 L. W. Funk.....	May salary.....	4109	60 00
	28 R. M. Royer.....	May salary.....	4110	70 00
	28 Herbert Osborn.....	May salary.....	4111	225 00
	28 Jas. S. Hine.....	May salary.....	4112	120 00
	28 F. L. Landacre.....	May salary.....	4113	120 00
	28 Max Morse.....	May salary.....	4114	30 00
	28 J. G. Sanders.....	May salary.....	4115	25 00
	28 Mildred Waters.....	May salary.....	4116	35 00
	28 Metta Seymour.....	May salary.....	4117	5 00
	27 C. A. Melick.....	May salary.....	4118	60 00
	31 W. H. Page.....	Additional salary.....	4119	250 00
	31 Hayden, Clinton Nat'l Bank.....	Bonds due June 1, '04 & int.	4120	13,525 00
	31 Ohio Nat'l Bank.....	6 mo. int. on \$80,000 4½%..	4121	1,800 00
	31 F. C. Caldwell.....	Petty expense.....	4122	9 90
June	1 H. G. Shepherd.....	Services band.....	4123	18 00
	1 R. H. Minns.....	Services.....	4124	6 00
	1 E. H. Ortman.....	Services band.....	4125	18 00
	1 H. M. Myers.....	Services.....	4126	18 00
	1 W. W. Hackney.....	Services.....	4127	18 00
	2 J. H. Kindle.....	Services band.....	4128	18 00
	2 W. W. Boyd.....	Expenses.....	4129	56 15
	28 Columbus Gas Co.....	April and May gas.....	4130	301 58
	2 J. G. Keiser.....	Services band.....	4131	12 00
	2 C. C. Rose.....	Labor.....	4132	18 00
	2 Alexis Cope.....	June salary.....	4133	187 50
	3 Peter Schupp.....	Services band.....	4134	12 00
	6 C. B. Morrey.....	Cultures.....	4135	1 00
	6 R. M. Rownd, P. M....	Stamps.....	4136	37 00
	7 Catherine Andrews.....	June salary.....	4137	60 00
	7 G. H. McKnight.....	June salary.....	4138	130 00
	7 Chas. A. Bruce.....	June salary.....	4139	150 00
	8 Alex Argo.....	Services.....	4140	60 00
	8 Helen Arms.....	Services.....	4141	20 00
	8 C. Ashenhurst.....	Labor.....	4142	20 00
	8 R. F. Busher.....	Labor.....	4143	8 00
	8 J. A. Beer.....	Feed.....	4144	4 75
	8 Helen E. Burgess.....	Stenographic work.....	4145	6 60
	8 A. D. Bullock.....	Horse.....	4146	5 00
	8 J. E. Bard.....	Feed.....	4147	5 00
	8 W. W. Boyd.....	Expenses.....	4148	93 10
	8 F. C. Caldwell.....	Expenses.....	4149	25 25
	8 W. O. Dean.....	Labor.....	4150	7 43
	8 John Downing.....	Labor.....	4151	10 00
	8 Mary A. DeCamp.....	Work.....	4152	13 75

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
June 8	R. H. Demorest	Labor	4153	5 75
8	J. D. Davis	Labor	4154	2 40
8	N. C. Dysart	Assistance	4155	9 00
8	D. J. Demorest	Labor	4156	20 00
8	Ida M. Fisher	Labor	4157	20 20
8	J. N. Frank	Labor	4158	8 18
8	J. N. Frank	Labor	4159	11 50
8	Lilian Huffman	Labor	4160	20 00
8	True Houser	Labor	4161	3 15
8	Wm. W. Hackney	Labor	4162	3 44
8	John M. Harsh	Labor	4163	6 60
8	E. A. Hitchcock	Expenses	4164	27 90
8	C. H. Kerr	Labor	4165	3 08
8	C. H. Kerr	Labor	4166	7 35
8	The Lantern	Advertising	4167	175 00
8	Thos. W. Lang	Labor	4168	10 30
8	H. C. Lord	Cash advanced	4169	52
8	O. F. Metz	Labor	4170	10 54
8	Max D. Morton	Labor	4171	3 20
8	Maude W. Martin	Supplies	4172	2 90
8	Chester McClintock	Labor	4173	12 00
8	B. F. Maag	Services	4174	17 00
8	Clara G. Mark	Labor	4175	16 00
8	C. M. McClure	Labor	4176	7 80
8	A. E. Moody	Labor	4177	5 25
8	R. M. Mark	Labor	4178	13 00
8	Simeon Nash	Labor	4179	6 50
8	T. J. Onten	Binding	4180	206 58
8	Mary Oberlin	Labor	4181	5 20
8	W. Redhead	Labor	4182	2 75
8	F. A. Ray	Cash advanced	4183	33 20
8	R. M. Royer	Cash advanced	4184	8 50
8	C. W. Reeder	Labor	4185	6 01
8	Robt. F. Busher	Labor	4186	4 00
8	M. G. Roberts	Labor	4187	7 25
8	M. A. Stoner	Supplies	4188	5 00
8	May Secrest	Supplies	4189	6 82
8	Ch. G. Savidis	Labor	4190	2 00
8	Lucian Shaw	Labor	4191	6 00
8	A. L. Stewart	Labor	4192	10 00
8	F. W. Speer	Labor	4193	3 85
8	B. F. Thomas	Cash advanced	4194	12 73
8	Geo. Washburne	Labor	4195	6 25
8	E. D. Waid	Labor	4196	18 80
8	A. B. Welty	Labor	4197	6 00
8	E. D. Waid	Labor	4198	14 00
8	Carl E. Steeb	Notary work	4199	9 25
8	J. A. Stiver	Labor	4200	15 45
8	Ernest F. Shade	Guide	4201	6 00
13	Am. Dist. Tel'ph Co. ...	Watch service	4202	114 00
13	Samuel Lowery	Labor	4203	46 40
8	Philip Lacey	Labor	4204	43 20
8	C. F. Nettering	Labor	4205	27 00
8	J. E. Bard	Labor	4206	7 95
8	S. Bittle	Labor	4207	75
8	Quincy Cather	Labor	4208	13 80
8	E. L. Clements	Labor	4209	38 17
8	E. L. Corbett	Labor	4210	3 50
8	C. M. Davis	Labor	4211	1 50
8	E. L. Glacken	Labor	4212	5 40

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
June 8	W. D. Griffith.....	Labor.....	4213	52 60
8	F. G. Green.....	Labor.....	4214	52 50
8	D. L. Hurst.....	Labor.....	4215	29 18
8	Edgar Martin.....	Labor.....	4216	1 35
8	J. C. Miron.....	Labor.....	4217	35 47
8	A. E. Moore.....	Labor.....	4218	1 50
8	R. M. Moore.....	Labor.....	4219	12 00
8	S. S. Zemer.....	Service as clerk.....	4220	10 00
8	Chas. C. Wilcox.....	Service as clerk.....	4221	10 00
9	D. W. McGrath.....	Est. No. 2, Physics bldg.	4222	7,706 07
9	D. W. McGrath.....	Est. No. 1, extras Physics bldg.....	4223	197 43
9	A. O. Newcomb.....	Janitor work.....	4224	7 50
10	Maude W. Martin.....	June salary.....	4225	80 00
10	Sherman Wolfe.....	Salary as fireman.....	4226	50 00
11	Citizens Telephone Co.	Phone rental.....	4227	1 15
11	K. D. Swartzel.....	June salary.....	4228	150 00
11	C. U. Telephone Co....	Phone rental.....	4229	10 00
11	W. E. Davis.....	June salary.....	4230	30 00
11	S. E. Rasor.....	June salary.....	4231	100 00
11	A. W. Hodgman.....	June salary.....	4232	160 00
13	Artura Photo Paper Co	Supplies.....	4233	5 25
13	H. Brann Sons & Co..	Supplies.....	4234	55 02
13	Blackwood, Green & Co.....	Hardware, etc.....	4235	18 52
13	Beck & Orr.....	Record.....	4236	2 75
13	Bowden Towel Supply Co.....	Towels.....	4237	31 95
13	Columbus Photo Supply Co.....	Photo supplies.....	4238	18 48
13	Columbus Bank Note Co.....	Diplomas, certificates.....	4239	195 00
13	Champlin Ptg. Co.....	Envelopes and cards.....	4240	22 25
13	Citizens Ice & Coal Co..	Coupon book.....	4241	10 00
13	Jas. P. Carlisle.....	Sand and cement.....	4242	3 50
13	Columbus Hdw. Co....	Locks.....	4243	2 00
13	C. O. Paper Co.....	Paper.....	4244	3 46
13	Columbus Mill & Mine Supply Co.....	Valve and belt.....	4245	10 03
13	Col'bus Plate & Wind. Glass Co.....	Glass.....	4246	14 83
13	Columbus Supply Co....	Supplies.....	4247	3 67
13	Columbus Nursery Co..	Apples.....	4248	6 80
13	Col'bus Office Supply Co.....	Neostyle, etc.....	4249	42 00
13	Col'bus Sewer Pipe Co..	Pipe.....	4250	14 06
13	Central Ohio Oil Co....	Oil.....	4251	15 23
13	Col'bus Sporting Goods Co.....	D. bells.....	4252	27 00
13	Gustav Bruder, Mgr....	Drummer.....	4253	4 00
13	W. J. Davidson.....	Hay.....	4254	7 00
13	E. Doddington & Co..	Tables, cases, etc.....	4255	768 39
13	Erner & Hopkins Co....	Electric supplies.....	4256	23 45
13	Engelke & Bigelow....	Freight and cartage.....	4257	14 84
13	Elliott & Harris.....	Handles and bolts.....	4258	5 85
13	F. W. Freeman.....	Groceries.....	4259	23 30
13	A. G. Gieren.....	Paper.....	4260	2 00
13	Green, Joyce & Co....	Supplies.....	4261	5 35
13	P. Hayden Sad. Hdw. Co.....	Castings.....	4262	3 50

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
June 13	The Hatton Pharm....	Supplies.....	4263	4 98
13	Hamilton & Parker Co.	Coal.....	4264	42 47
13	Hanna Paint Mfg. Co.	Lead.....	4265	10 50
13	P. Hayden Sad. Hdw. Co.....	Bars.....	4266	11 90
13	Hann & Adair.....	Paper.....	4267	4 90
13	C. W. Hurst & Co.....	Stamps.....	4268	72
13	Jeffrey Mfg. Co.....	Wire.....	4269	1 50
13	Kinnear & Co.....	Carriage.....	4270	4 00
13	Kimball & Mathews.....	Solio, tripod.....	4271	15 25
13	Kauffman-Lattimer Co	Supplies.....	4272	120 95
13	Lawrence Press Co	Punching cards.....	4273	1 00
13	M. C. Alley & Co	Sabres, badges and belts.....	4274	57 80
13	W. H. Miller & Co.....	Waste.....	4275	20 92
13	C. E. Morris & Co.....	Iron.....	4276	7 74
13	Murray City Coal Co.	Coal.....	4277	1,276 01
13	McClelland & Co	Pens.....	4278	1 50
13	Logan McCormick.....	Frames.....	4279	18 00
13	J. S. Maclean	Trays.....	4280	6 00
13	McAllister, Mohler & Co.....	Furniture.....	4281	53 50
13	New Franklin Ptg. Co.	Blanks.....	4282	8 00
13	Nitschke Bros.	Stationery.....	4283	8 29
13	Orr, Brown & Price.....	Supplies.....	4284	5 97
13	T. J. O'Neil.....	Sacks.....	4285	9 00
13	Pure Milk Co.....	Tickets.....	4286	5 38
13	Pletsch & Sutton.....	Supplies.....	4287	6 20
13	James Penn.....	Hay, corn, oats.....	4288	15 65
13	Payne, McDonald Hd. Co.....	Pulleys, glass.....	4289	2 93
13	Chas. J. Palmer.....	Iron, etc.....	4290	19 97
13	Lee Roessler.....	Mounting Map.....	4291	1 50
13	The Ruggles-Gale Co....	Receipts.....	4292	6 45
13	Thomas Ross.....	Soda ash.....	4293	25 16
13	Standard Oil Co.....	Oil and gasoline.....	4294	6 00
13	Schoedinger, Fearn & Co.....	Tools.....	4295	19 48
13	Sutton Bros.....	Potatoes.....	4296	28 00
13	Samuel Stevens Co.....	Mason jars.....	4297	4 20
13	R. M. Seward & Co....	Clay.....	4298	12 30
13	Spahr & Glenn.....	Printing.....	4299	98 75
13	T. T. Tress.....	Repairs.....	4300	1 00
13	Taylor, Williams & Co.	Coal.....	4301	20 12
13	Tallmadge Hdw. Co....	Locks, etc.....	4202	343 77
13	Underwood Type. Co.	Ribbons.....	4303	3 00
13	Williams-Adai Mdse. Co.....	Jars.....	4304	2 93
13	Am. Encaustic Til. Co.	Tiles.....	4305	10 00
13	Am. Type F'ders Co....	Drawers.....	4306	75 00
13	Apfel, Murdock Co....	Grating.....	4307	5 11
13	The Am. Architect.....	Advertising.....	4308	26 25
13	Am Berkshire Co.....	Record.....	4309	1 00
13	W. H. Anderson & Co.	Reports.....	4310	48 00
13	The Burford Bros. Pot- tery Co.....	Clay.....	4311	6 95
13	Beaver Falls Art Tile Co.....	Biscuit.....	4312	9 28
13	Burrows Bros. Co.....	Books.....	4313	19 35
13	Bausch & Lomb Opti- cal Co.....	Peptone.....	4314	7 20

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
June 13	Brown & Sharpe Mfg. Co.....	Scales.....	4315	6 37
13	Baker & Adamson Chem. Co.....	Cale-Chloride.....	4316	1 70
13	Bates & Guild Co.....	Book.....	4317	2 00
13	R. R. Bowker.....	Catalog.....	4318	5 50
13	G. Cramer Dry Plate Co.....	Plates.....	4319	20 02
13	Cleveland News Bur...	Service.....	4320	5 00
13	Electric Appliance Co.	Plate.....	4321	2 30
13	Emmert Mfg. Co.....	Vise.....	4322	12 00
13	Eimer & Amend.....	Metal.....	4323	1 29
13	Henry J. Green.....	Thermometers.....	4324	23 25
13	Geological Soc. of Am..	Book.....	4325	5 00
13	E. D. Griswold, Secy..	Year book.....	4326	3 00
13	Huber & Furman.....	Roots and herbs.....	4327	15 00
13	The Leeds-Northrup Co.....	Condenser.....	4328	63 00
13	H. W. Johns-Manville Co.....	Pipe cover.....	4329	2 85
13	J. Marsching & Co....	Cobalt, manganese.....	4330	9 50
13	The O'Donnell Elevator Co.....	Cable.....	4331	23 13
13	Ohio Valley Clay Co...	Clay.....	4332	2 00
13	Justus, Roe & Sons...	Tapes.....	4333	55 98
13	E. R. Squibb & Sons...	Paper.....	4334	3 38
13	E. H. Sargent & Co....	Balances.....	4335	9 00
13	Stanley Elect. Mfg. Co.	Ammeter.....	4336	50 00
13	C. H. Stoelting Co....	Supplies, etc.....	4337	144 84
13	Strobridge Litho. Co...	Commissions.....	4338	10 00
13	G. E. Stechert.....	Books.....	4339	68 70
13	S. M. Tracy.....	Specimens.....	4340	83 60
13	Arthur H. Thomas Co...	Beakers, etc.....	4341	162 73
13	Weston Elect. Inst.Co..	Instruments.....	4342	41 18
13	White, Haines Opt. Co.	Instruments.....	4343	330 02
13	D. R. Major.....	June salary.....	4344	160 00
13	A. C. Barrows.....	June salary.....	4345	225 00
13	L. B. Tuckerman.....	June salary.....	4346	70 00
13	H. H. Hamilton.....	June salary.....	4347	12 50
13	Gilbert Pennock.....	June salary.....	4348	30 00
13	Sarah Barrows.....	June salary.....	4349	40 00
13	J. E. Moore.....	Cleaning vaults.....	4350	23 00
15	W. O. Thompson.....	June salary.....	4351	416 67
15	Carl E. Steeb.....	June salary.....	4352	83 33
15	K. H. Duncan.....	June salary.....	4353	66 66
15	E. D. Cockins.....	June salary.....	4354	66 66
15	E. R. Hubler.....	June salary.....	4355	40 00
15	Minnie Hines.....	June salary.....	4356	40 00
15	Gertrude Bellows.....	June salary.....	4357	40 00
15	W. C. McCracken.....	June salary.....	4358	150 00
15	Wm. Standley.....	June salary.....	4359	65 00
15	Wm. Case.....	June salary.....	4360	55 00
15	Benj. Le Bay.....	June salary.....	4361	55 00
15	Thos. Bonde.....	June salary.....	4362	50 00
15	Roy Pratt.....	June salary.....	4363	25 00
15	Marion Peck.....	June salary.....	4364	45 00
15	Chas. Lewis.....	June salary.....	4365	10 00
15	Norman Slee.....	June salary.....	4366	10 00
15	George Rose.....	June salary.....	4367	75 00
15	Guy Murphy.....	June salary.....	4368	25 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
June 15	Chas. Hicks.....	June salary.....	4369	45 00
15	G. A. Goodspeed.....	June salary.....	4370	40 00
15	John Brown.....	June salary.....	4371	15 00
15	John Brown.....	June salary.....	4372	25 00
15	W. R. Thomas.....	June salary.....	4373	40 00
15	Richard Brandon.....	June salary.....	4374	26 67
15	Wm. Whitestein.....	June salary.....	4375	40 00
15	Harry Chantler.....	June salary.....	4376	40 00
15	W. Townsel.....	June salary.....	4377	20 00
15	Francis Andrix.....	June salary.....	4378	30 00
15	G. C. Denny.....	June salary.....	4379	40 00
15	M. N. Cook.....	June salary.....	4380	40 00
15	Andrew Rudell.....	June salary.....	4381	20 00
14	E. E. Sommermeier.....	June salary.....	4382	110 00
15	N. W. Lord.....	June salary.....	4383	200 00
14	Herminie de Nagy.....	June salary.....	4384	30 00
14	Lester Waltman.....	Hauling water.....	4385	3 75
14	Ch. G. Savidis.....	Labor.....	4386	6 63
14	M. A. Stoner.....	Supplies.....	4387	5 00
14	May Secrest.....	June salary.....	4388	120 00
14	D. H. Udall.....	June salary.....	4389	145 00
15	H. M. Templin.....	June salary.....	4390	40 00
15	J. W. Brown.....	June salary.....	4391	40 00
15	C. M. Beem.....	June salary.....	4392	40 00
15	Wm. E. Cook.....	June salary.....	4393	40 00
15	Willis Stahl.....	June salary.....	4394	40 00
15	Joseph Black.....	June salary.....	4395	25 00
15	V. H. Davis.....	June salary.....	4396	8 00
15	F. E. Bentler.....	June salary.....	4397	12 50
15	D. R. Walker.....	June salary.....	4398	18 00
15	R. M. Martin.....	June salary.....	4399	20 00
15	John Ricketts.....	June salary.....	4400	45 00
15	James Kelley.....	June salary.....	4401	30 00
15	M. S. Harvey.....	June salary.....	4402	25 00
15	C. H. Woodruff.....	June salary.....	4403	70 00
15	J. P. Covan.....	June salary.....	4404	83 33
15	A. F. Hall.....	June salary.....	4405	73 33
15	A. B. Probert.....	June salary.....	4406	45 00
15	H. C. Price.....	June salary.....	4407	225 00
15	Mary A. Malloy.....	June salary.....	4408	30 00
15	J. W. Decker.....	June salary.....	4409	170 00
15	Chas. S. Plumb.....	June salary.....	4410	200 00
15	M. F. Miller.....	June salary.....	4411	100 00
15	E. F. Mangold.....	June salary.....	4412	50 00
15	Laurel L. Hill.....	June salary.....	4413	40 00
15	A. S. Neale.....	June salary.....	4414	30 00
15	H. A. Weber.....	June salary.....	4415	225 00
15	Alfred Vivian.....	June salary.....	4416	150 00
15	Rudolph Hirsch.....	June salary.....	4417	60 00
15	Geo. W. Knight.....	June salary.....	4418	250 00
15	A. H. Tuttle.....	June salary.....	4419	120 00
15	Henry R. Spencer.....	June salary.....	4420	110 00
15	A. M. Bleile.....	June salary.....	4421	225 00
15	R. J. Seymour.....	June salary.....	4422	25 00
15	J. A. Beer.....	June salary.....	4423	25 00
15	W. C. Mills.....	June salary.....	4424	40 00
15	Pearl Contellier.....	June salary.....	4425	10 00
15	Jos. N. Bradford.....	June salary.....	4426	210 00
15	Thos. E. French.....	June salary.....	4427	150 00
15	Thos. K. Lewis.....	June salary.....	4428	125 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
June	15 Silas Martin.....	June salary.....	4429	100 00
	15 J. H. Vosskuhler.....	June salary.....	4430	120 00
	15 J. S. Tidball.....	June salary.....	4431	80 00
	15 Lucian Shaw.....	June salary.....	4432	30 00
	15 H. C. Lord.....	June salary.....	4433	225 00
	15 J. W. Smith.....	June salary.....	4434	100 00
	15 B. F. Maag.....	June salary.....	4435	100 00
	15 Chas. B. Morrey.....	June salary.....	4436	140 00
	14 J. A. Wilkinson.....	June salary.....	4437	30 00
	15 W. A. Kellerman.....	June salary.....	4438	225 00
	15 J. H. Shaffner.....	June salary.....	4439	130 00
	15 Jas. McOwen.....	June salary.....	4440	40 00
	15 H. H. York.....	June salary.....	4441	50 00
	15 S. A. Norton.....	June salary.....	4442	125 00
	15 Wm. McPherson.....	June salary.....	4443	225 00
	15 W. E. Henderson.....	June salary.....	4444	140 00
	15 C. W. Foulk.....	June salary.....	4445	120 00
	15 M. Mumma.....	June salary.....	4446	70 00
	15 E. N. Webb.....	June salary.....	4447	60 00
	15 C. G. Stewart.....	June salary.....	4448	30 00
	15 C. E. Sherman.....	June salary.....	4449	180 00
	15 A. H. Heller.....	June salary.....	4450	180 00
	15 Frank Eno.....	June salary.....	4451	150 00
	15 H. D. Browning.....	June salary.....	4452	125 00
	15 C. A. Melick.....	June salary.....	4453	60 00
	15 Edw. Orton, Jr.....	June salary.....	4454	200 00
	15 A. V. Bleininger.....	June salary.....	4455	100 00
	15 R. C. Purdy.....	June salary.....	4456	50 00
	15 C. H. Griffin.....	June salary.....	4457	20 00
	15 M. A. Stoner.....	June salary.....	4458	180 00
	15 Cora Elliott.....	June salary.....	4459	25 00
	15 J. E. Hagerty.....	June salary.....	4460	120 00
	15 C. C. Huntington.....	June salary.....	4461	30 00
	15 W. E. Miller.....	June salary.....	4462	50 00
	15 T. H. Haines.....	June salary.....	4463	130 00
	15 W. W. Boyd.....	June salary.....	4464	200 00
	15 F. C. Caldwell.....	June salary.....	4465	190 00
	15 F. A. Fish.....	June salary.....	4466	110 00
	15 Helen Lambdin.....	June salary.....	4467	11 00
	15 J. R. Taylor.....	June salary.....	4468	150 00
	15 W. H. Siebert.....	June salary.....	4469	180 00
	15 E. H. McNeal.....	June salary.....	4470	100 00
	15 Chas. S. Prosser.....	June salary.....	4471	190 00
	15 J. A. Bownocker.....	June salary.....	4472	160 00
	15 L. A. Rhoades.....	June salary.....	4473	225 00
	15 B. A. Eisenlohr.....	June salary.....	4474	80 00
	14 L. A. Grigsby.....	June salary.....	4475	75 00
	15 Geo. B. Viles.....	June salary.....	4476	120 00
	15 Mrs. C. W. Mesloh.....	June salary.....	4477	40 00
	15 J. R. Smith.....	June salary.....	4478	225 00
	15 W. S. Elden.....	June salary.....	4479	160 00
	15 W. R. Lazenby.....	June salary.....	4480	225 00
	15 V. H. Davis.....	June salary.....	4481	83 33
	14 O. F. Metz.....	Labor.....	4482	4 73
	15 F. E. Sanborn.....	June salary.....	4483	200 00
	15 W. A. Knight.....	June salary.....	4484	120 00
	15 C. P. Crowe.....	June salary.....	4485	100 00
	15 All Case.....	June salary.....	4486	60 00
	15 Robt. B. Cool.....	June salary.....	4487	65 00
	15 W. H. Rench.....	June salary.....	4488	125 00

DETAILED STATEMENT OF DISBURSEMENTS—Continued.

Date.	To whom paid.	For what purpose.	No.	Amount.
June 15	S. C. Derby.....	June salary.....	4489	150 00
15	Mrs. W. F. Hunter.....	Salary of W. F. Hunter for June.....	4490	250 00
15	W. H. Page.....	June salary.....	4491	200 00
15	E. B. Kinkead.....	June salary.....	4492	130 00
15	J. A. Schauck.....	June salary.....	4493	100 00
15	E. O. Randall.....	June salary.....	4494	80 00
15	Geo. W. Rightmire.....	June salary.....	4495	50 00
15	Florence Price.....	June salary.....	4496	40 00
15	Smith W. Bennett.....	May and June salary.....	4497	120 00
15	Olive Jones.....	June salary.....	4498	145 00
15	Harriett Townshend.....	June salary.....	4499	60 00
15	Gertrude Kellicott.....	June salary.....	4500	80 00
15	Maude Jeffrey.....	June salary.....	4501	80 00
15	Martha Hartford.....	June salary.....	4502	50 00
15	Elizabeth Smythe.....	June salary.....	4503	40 00
15	John A. Schneider.....	June salary.....	4504	43 12
15	Max Morton.....	June salary.....	4505	30 00
15	R. D. Bohannon.....	June salary.....	4506	225 00
15	Geo. W. McCoard.....	June salary.....	4507	160 00
15	Jas. E. Boyd.....	June salary.....	4508	150 00
15	H. W. Kuhn.....	June salary.....	4509	110 00
15	E. F. Coddington.....	June salary.....	4510	110 00
15	J. R. Clements.....	June salary.....	4511	20 00
15	W. T. Magruder.....	June salary.....	4512	225 00
15	E. A. Hitchcock.....	June salary.....	4513	175 00
15	Horace Judd.....	June salary.....	4514	120 00
15	R. E. Cartzdafer.....	June salary.....	4515	55 00
15	Gustav Bruder.....	June salary.....	4516	20 00
15	F. A. Ray.....	June salary.....	4517	200 00
15	T. B. Simon.....	June salary.....	4518	30 00
15	G. B. Kauffman.....	June salary.....	4519	200 00
15	C. A. Dye.....	June salary.....	4520	110 00
15	W. H. Scott.....	June salary.....	4521	225 00
15	A. E. Davies.....	June salary.....	4522	90 00
15	C. P. Linhart.....	June salary.....	4523	160 00
15	D. C. Huddleson.....	June salary.....	4524	80 00
15	Alma Wacker.....	June salary.....	4525	7 50
15	Lily Weeks.....	June salary.....	4526	26 00
15	B. F. Thomas.....	June salary.....	4527	225 00
15	A. D. Cole.....	June salary.....	4528	200 00
15	R. F. Earhart.....	June salary.....	4529	100 00
15	J. V. Denney.....	June salary.....	4530	250 00
15	W. L. Graves.....	June salary.....	4531	130 00
15	F. J. Muirie.....	June salary.....	4532	30 00
15	B. L. Bowen.....	June salary.....	4533	225 00
15	E. S. Ingraham.....	June salary.....	4534	120 00
15	A. D. Bullock.....	Fees.....	4535	2 32
15	D. S. White.....	June salary.....	4536	200 00
15	S. Sisson.....	June salary.....	4537	170 00
15	O. V. Brumley.....	June salary.....	4538	100 00
15	J. McI. Phillips.....	June salary.....	4539	110 00
15	Lee W. Funk.....	June salary.....	4540	60 00
15	R. M. Royer.....	June salary.....	4541	70 00
15	Herbert Osborn.....	June salary.....	4542	225 00
15	J. S. Hine.....	June salary.....	4543	120 00
15	F. L. Landacre.....	June salary.....	4544	120 00
15	Max Morse.....	June salary.....	4545	30 00
15	J. G. Sanders.....	June salary.....	4546	25 00

DETAILED STATEMENT OF DISBURSEMENTS—Concluded.

Date.	To whom paid.	For what purpose.	No.	Amount.
June 15	Mildred Waters.....	June salary.....	4547	35 00
15	Metta Seymour.....	June salary.....	4548	5 00
15	Elsa Jane Loechler....	Return fees.....	4549	6 00
15	Ernest F. Shade.....	Labor.....	4550	3 00
17	Helen E. Burgess.....	Labor.....	4551	4 12
17	A. D. Bullock.....	Vet. Clinic services.....	4552	28 34
17	R. M. Mark.....	Labor.....	4553	6 75
18	A. B. Welty.....	Labor.....	4554	5 63
18	W. O. Thompson.....	Honorariums.....	4555	200 00
18	H. G. Weinland.....	Labor.....	4556	5 00
23	J. N. Frank.....	Labor.....	4557	5 87
23	H. N. Lucas.....	Labor.....	4558	9 00
23	The Ohio Nat'l Bank..	M. O. to G. Folk for books..	4559	319 00
24	Jos. A. Stiver.....	Guide work.....	4560	15 68
24	R. H. Hohn.....	Labor.....	4561	13 80
14	J. V. Denney.....	Cash advanced.....	4562	1 50
24	J. McLain Smith.....	Expenses Trustee.....	4563	20 25
25	C. A. Dye.....	Supplies.....	4564	8 77
25	T. J. Corkery.....	Labor.....	4565	10 50
25	A. R. Barrington.....	Music Commencement.....	4566	35 00
25	J. T. Mack.....	Expenses Trustee.....	4567	12 95
25	Lafayette Jones.....	Services.....	4568	5 80
28	Gilbert H. Stewart....	Salary.....	4569	290 00
30	D. M. Massie.....	Expenses Trustee.....	4570	20 70
30	Balance in hands of L. F. Kiesewetter, Treas.....			\$ 12,035 00
	Grand total.....			\$ 582,360 58

STATEMENT No. III.

In compliance with Section 7 of the Organic Act, passed by the Legislature of Ohio, May 1, 1878 (Bates' Annotated Statutes, Sec. 4105-41), which requires the list of "the number of professors officers and teachers and other employes, and the compensation of each, to be annually reported," I submit the following :

Name of Employee.	Position.	Salary.
Wm. Oxley Thompson....	President.....	\$5,000 00
William Henry Scott.....	Professor of Philosophy.....	2,250 00
Sidney A. Norton.....	Emeritus Professor and Lecturer in General Chemistry.....	1,250 00
Nathaniel W. Lord.....	Professor of Metallurgy and Mineralogy.....	2,000 00
Samuel C. Derby (1).....	Professor of Latin.....	1,650 00
William R. Lazenby.....	Professor of Horticulture and Forestry.....	2,250 00
Josiah R. Smith.....	Professor of Greek.....	2,250 00
Henry A. Weber.....	Professor of Agricultural chemistry.....	2,250 00
Benjamin F. Thomas.....	Professor of Physics.....	2,250 00
Geo. W. Knight.....	Professor of American History and Political Science.....	2,500 00
Rosser D. Bohannon.....	Professor of Mathematics.....	2,250 00
Albert M. Bleile.....	Professor of Anatomy and Physiology.....	2,250 00
William A. Kellerman.....	Professor of Botany.....	2,475 00
Homer C. Price.....	Professor of Rural Economics and Dean of the College of Agriculture.....	2,250 00
George B. Kauffman.....	Professor of Pharmacy.....	2,000 00
Benjamin L. Bowen.....	Professor of Romance Languages.....	2,250 00
Joseph V. Denney.....	Professor of Rhetoric and English Language.....	2,250 00
Allen C. Barrows.....	Professor of English Literature.....	2,250 00
Edward Orton, Jr.....	Professor and Director of Clay Working and Ceramics.....	2,000 00
William F. Hunter (2)....	Professor of Law and Dean of the College of Law.....	2,500 00
Charles W. Foulk.....	Associate Professor of Chemistry.....	1,200 00
John H. Shaffner.....	Associate Professor of Botany.....	1,300 00
Charles B. Morrey.....	Professor of Bacteriology.....	1,400 00
James S. Hine.....	Associate Professor of Zoology and Entomology.....	1,300 00
Karl D. Swartzel.....	Assistant Professor of Mathematics.....	1,500 00
George H. McKnight.....	Assistant Professor of Rhetoric and English Language.....	1,300 00
Francis L. Landacre.....	Associate Professor of Zoology and Entomology.....	1,300 00
Wallace S. Elden.....	Associate Professor of Classical Languages.....	1,600 00
Fred A. Fish.....	Assistant Professor of Electrical Engineering.....	1,100 00
William A. Knight.....	Assistant Professor of Machine Shop Practice.....	1,320 00
James E. Hagerty.....	Assistant Professor of Economics and Sociology.....	1,600 00
Harry W. Kuhn.....	Assistant Professor of Mathematics.....	1,100 00
E. S. Ingraham.....	Assistant Professor of Romance Languages.....	1,200 00
Thomas H. Haines.....	Assistant Professor of Philosophy.....	1,300 00
B. B. Herrick.....	Instructor in Cheese-making.....	200 00
William H. Renck.....	Instructor in Pattern-making and founding.....	1,270 00
Charles P. Crowe.....	Instructor in Forging.....	1,100 00
Alonzo H. Tuttle.....	Instructor in American History and Political Science.....	1,200 00

(1). Granted leave of absence on part pay from November 1, 1903, to close of University year.

(2). Died June 15, 1904.

STATEMENT III—Continued.

Name of Employee.	Position.	Salary.
Arthur E. Davies	Instructor in Philosophy and Education	900 00
Thomas K. Lewis	Instructor in Drawing	1,200 00
Silas Martin	Instructor in Drawing	1,000 00
Joseph H. Vosskuehler	Instructor in Drawing	1,200 00
Albert V. Bleininger	Instructor in Ceramics	1,000 00
Berthold A. Eisenlohr	Instructor in Germanic Languages	900 00
Samuel E. Rasor	Instructor in Mathematics	1,000 00
Edward E. Sommermeier	Instructor in Metallurgy and Mineralogy	1,100 00
Don Carlos Huddleson	Instructor in Physical Education	800 00
Meritt F. Miller	Assistant Professor of Agronomy	1,000 00
Frank Ruhlen	Instructor in Zootechny	450 00
A. H. Heller	Professor of Civil Engineering	1,800 00
Emilius O. Randall	Professor of Law	800 00
William T. Magruder	Professor of Mechanical Engineering	2,250 00
Edgar B. Kinkead	Professor of Law	1,300 00
William H. Page	Professor of Law	2,250 00
William McPherson, Jr.	Professor of Chemistry	2,250 00
Joseph N. Bradford	Professor of Architecture and Drawing	2,000 00
David S. White	Professor and Dean of College of Veterinary Medicine	1,800 00
Herbert Osborn	Professor of Zoology and Entomology	2,250 00
Christopher P. Linhart	Professor of Physical Education	1,600 00
Olive B. Jones	Librarian	1,450 00
Henry C. Lord	Professor of Astronomy and Director of Emerson-McMillin Observatory	2,250 00
Frank E. Sanborn	Professor and Director of Department of Industrial Arts	2,200 00
Frank A. Ray	Professor of Mine Engineering	2,000 00
John A. Schauk	Professor of Law	1,000 00
John W. Decker	Professor of Dairying	1,700 00
Embury A. Hitchcock	Professor of Experimental Engineering	1,750 00
Francis C. Caldwell	Professor of Electrical Engineering	1,900 00
Charles S. Prosser	Professor of Geology	1,900 00
John A. Bownocker	Professor of Inorganic Geology and Curator of Museum	1,600 00
Alfred D. Cole	Professor of Physics	2,000 00
Minnie A. Stoner	Professor of Domestic Science	1,800 00
Wilbur H. Siebert	Professor of European History	1,800 00
George W. McCoard	Associate Professor of Mathematics	1,600 00
Charles W. Mesloh (1)	Associate Professor of Germanic Languages	1,400 00
Arthur W. Hodgman	Associate Professor of Classical Languages	1,600 00
Cornelia P. Souther	Associate Professor of Domestic Art	480 00
Maude W. Martin	Associate Professor of Physical Education	800 00
William E. Henderson	Associate Professor of Chemistry	1,400 00
Christopher E. Sherman	Professor of Civil Engineering	1,980 00
Joseph R. Taylor	Associate Professor of English Literature	1,500 00
James E. Boyd	Associate Professor of Mathematics	1,500 00
Charles A. Bruce	Associate Professor of Romance Languages	1,500 00
Septimus Sisson	Professor of Comparative Anatomy	1,700 00
Thomas E. French	Associate Professor Architecture and Drawing	1,500 00
David R. Major	Associate Professor of Education	1,600 00
J. Warren Smith	Lecturer on Meteorology	100 00
William L. Graves	Assistant Professor of Rhetoric and English Language	1,300 00
Clair A. Dye	Assistant Professor of Pharmacy	1,100 00
F. H. Eno	Associate Professor of Civil Engineering	1,650 00
Albert F. Hall	Machinist in Mechanical Engineering	880 00
Harriett Townshend	Assistant in Library	600 00

(1). Died March 15, 1904.

STATEMENT III—Continued.

Name of Employee.	Position.	Salary.
Maude D. Jeffrey	Assistant in Library	\$ 770 00
Gertrude S. Kellicott	Assistant in Library	770 00
Martha Hartford	Assistant in Library	470 00
Oliver V. Brumley	Assistant Professor of Veterinary Medicine	1,000 00
D. A. Crowner	Assistant in Butter-making	200 00
Melvin Dresbach	Instructor in Anatomy and Physiology	800 00
William L. Davies	Assistant in Civil Engineering	495 00
Vernon H. Davis	Assistant Professor of Horticulture and Forestry	1,000 00
Rudolph Hirsch	Instructor in Agricultural Chemistry	600 00
Sarah Barrows	Assistant in German	400 00
William C. Mills	Curator of Archaeology	480 00
J. A. Wilkinson	Fellow in Chemistry	300 00
C. G. Stewart	Fellow in Chemistry	300 00
H. H. York	Fellow in Botany	250 00
C. C. Huntington	Fellow in Economics and Sociology	300 00
Max Morton	Fellow in Library	80 00
Max Morse	Fellow in Zoology and Entomology	300 00
Mary H. Malloy	Fellow in Rhetoric and English Language	300 00
T. J. Muirie	Fellow in Rhetoric and English Language	300 00
G. Pennock	Fellow in Rhetoric and English Language	300 00
Lucien Shaw	Fellow in Architecture and Drawing	180 00
T. B. Simon	Student Assistant in Mine Engineering	250 00
Jas. McOwen	Florist	480 00
Alexis Cope	Secretary Board of Trustees	2,250 00
Carl E. Steeb	Accountant	1,000 00
Katherine H. Duncan	Executive Clerk	800 00
Edith D. Cockins	Registrar	800 00
Edith R. Hubler	Secretary's Clerk and Stenographer	480 00
Gertrude Bellows	Assistant to Registrar	400 00
W. C. McCracken	Chief Engineer	1,800 00
William Standley	First Assistant Engineer	780 00
W. H. Case	Second Assistant Engineer	660 00
Benjamin A. Le Bay	Steam-fitter	660 00
Thomas Bonde	First Fireman	550 00
Roy Pratt	Second Fireman	450 00
Marion Peck	Helper in Boiler House	450 00
George R. Rose	Plumber	700 00
Earl Kimmell	Plumber's Helper	281 00
John Ricketts	Watchman	540 00
Thomas E. Osburn	Watchman	337 50
James Kelly	Lawn Keeper	360 00
Charles M. Hicks	Janitor, University Hall	540 00
William Whitestone	Janitor, Biological Hall	480 00
George A. Goodspeed	Janitor, Chemical Hall	480 00
John Brown	Janitor, Brown Hall	480 00
William R. Thomas	Janitor, Armory and Gymnasium	480 00
Harry Chantler	Janitor, Orton Hall	480 00
Myron N. Cook	Janitor, Townshend Hall	480 00
H. M. Templin	Janitor, Veterinary Hospital	480 00
George C. Denny	Janitor, Botanical and Horticultural Halls	480 00
Richard Brandon	Assistant Janitor, Armory and Gymnasium	360 00
A. Rudell	Assistant Janitor, Townshend Hall	240 00
William Stahl	Assistant Janitor, Orton and Chemical Halls	360 00
Joseph Black	Helper to Janitor, University Hall	187 50
Earl Conway	Helper to Janitor, University Hall	112 50
Washington Townsel	Janitor, Orton Hall	300 00
V. B. Dragoo	Student Janitor, Mechanical Laboratory	180 00
H. H. Hamilton	Student Janitor, Botanical Hall	125 00
R. M. Martin	Student Janitor, Emerson-McMillin Obser.	240 00

STATEMENT III—Continued.

Name of Employee.	Position.	Salary.
F. E. Beutler.....	Student Janitor, Electrical Engineering Laboratory.....	\$ 125 00
C. H. Woodruff.....	Carpenter.....	840 00
J. P. Covan.....	Electrician.....	1,000 00
Laurel L. Hill.....	Stenographer, College of Agriculture.....	480 00
M. S. Harvey.....	Elevator Conductor.....	250 00
Guy Murphy.....	Plumber's Helper.....	19 00
A. B. Probert.....	Watchman.....	202 50
John W. Brown.....	Janitor, Page Hall.....	480 00
Chas. Lewis.....	Student Janitor, Power House.....	180 00
Norman Slee.....	Student Janitor, Power House.....	180 00
James Stainbrook.....	Fireman, Boiler House.....	450 00
Frances Andrix.....	Janitress, Page Hall.....	360 00
G. O. Spitler.....	Student Assistant in Metallurgy.....	240 00
Gustav Bruder.....	Band Master.....	200 00
Alma H. Wacker.....	Assistant Physical Education for Women.....	75 00
Lily Weeks.....	Janitress, Women's Gymnasium.....	250 00
R. F. Earhart.....	Assistant Professor of Physics.....	1,000 00
L. B. Tuckerman, Jr.....	Assistant in Physics.....	700 00
Hermine De Nagy.....	Assistant in French.....	300 00
D. H. Udall.....	Associate Professor of Veterinary Medicine and Obstetrics.....	1,450 00
J. McI. Phillips.....	Assistant in Veterinary Medicine.....	650 00
W. A. Landacre.....	Storekeeper.....	90 00
R. M. Royer.....	Storekeeper.....	832 50
J. A. Beer.....	Fellow in Anatomy and Physiology.....	250 00
Pearl Coutelier.....	Stenographer.....	120 00
J. S. Tidball.....	Instructor in Architecture and Drawing.....	800 00
B. F. Maag.....	Assistant in Astronomy.....	1,000 00
M. Mumma.....	Assistant in Chemistry.....	700 00
E. N. Webb.....	Assistant in Chemistry.....	600 00
Catherine Andrews.....	Assistant in Chemistry.....	600 00
H. D. Bruning.....	Assistant Professor of Civil Engineering.....	1,250 00
C. H. Melick.....	Assistant in Civil Engineering.....	180 00
R. C. Purdy.....	N. B. A. Scholar.....	100 00
C. H. Griffin.....	Student Janitor, Department of Ceramics.....	160 00
Cora Elliott.....	Maid, Department of Domestic Science.....	250 00
W. E. Miller.....	Assistant in Economics.....	500 00
W. W. Boyd.....	High School Visitor.....	2,000 00
Helen Lambdin.....	Stenographer.....	110 00
E. H. McNeal.....	Instructor in European History.....	1,000 00
Geo. B. Viles.....	Assistant Professor in German.....	360 00
Allando Case.....	Machinist, Department of Industrial Arts.....	600 00
Lee W. Funk.....	Assistant Storekeeper.....	660 00
Jas. G. Sanders.....	Fellow in Zoology and Entomology.....	250 00
Mildred Waters.....	Stenographer.....	350 00
Minnie F. Hines.....	Stenographer.....	480 00
E. F. Mangold.....	Assistant in Dairy Laboratory.....	500 00
A. S. Neale.....	Farm Superintendent.....	120 00
Robert B. Cool.....	Pattern Maker.....	390 00
May Secrest.....	Associate Professor of Domestic Art.....	600 00
Henry R. Spencer.....	Instructor in American History and Political Science.....	1,100 00
R. J. Seymour.....	Fellow in Anatomy and Physiology.....	250 00
C. M. Beem.....	Janitor, Hayes Hall.....	380 00
W. E. Cook.....	Janitor, Veterinary Building.....	380 00
Loyd H. Grigsby.....	Assistant in Latin.....	600 00
Geo. W. Rightmire.....	Instructor in Law.....	500 00
Smith W. Bennett.....	Instructor in Law.....	600 00
Gilbert H. Stewart.....	Professor of Law.....	290 00

STATEMENT III—Concluded.

Name of Employee.	Position.	Salary.
Florence Price.....	Stenographer, College of Law.....	480 00
Lowry F. Sater.....	Instructor in Law.....	120 00
Elizabeth Smythe.....	Stenographer, Library.....	400 00
E. F. Coddington.....	Assistant Professor of Mathematics.....	1,100 00
W. E. Davis.....	Student Assistant in Mathematics.....	300 00
R. E. Cartzdafner.....	Assistant in Mechanical Engineering.....	385 00
Horace Judd.....	Assistant Professor Experimental Engineering.....	1,200 00
W. R. Judson.....	Fellow in Experimental Engineering.....	90 00

To the Board of Trustees of the Ohio State University:

The undersigned, the Finance Committee, have in obedience to your instructions examined the accounts and vouchers of L. F. Kiesewetter, the treasurer of the University, for the period from July 1st., 1903, to June 30th, 1904, and carefully compared them with the records and vouchers in possession of the secretary and hereby certify that the report of the treasurer submitted to the Board for the period named, which is the last fiscal year, is correct.

Columbus, Ohio, September 7th, 1904.

GUY W. MALLON,
D. M. MASSIE,
PAUL JONES,
Finance Committee.

Report of Treasurer of the Ohio State University to the Secretary of Agriculture and the Secretary of the Interior, of amount received under act of Congress of August 30, 1890, in aid of Colleges of Agriculture and the Mechanic Arts, and of the disbursements thereof, to and including June 30, 1904.

	Amount.
Balance on hand July 1, 1903.....	\$ 192 15
Date of receipt of installment for 1903-4.....	25,000 00
Total available for year ended June 30, 1904.....	25,192 15
Disbursements thereof for and during the year ended June 30, 1904:—	
Agriculture, as per Schedule A.....	6,047 36
Mechanic Arts, as per Schedule B.....	6,542 75
English Language, as per Schedule C.....	1,770 00
Mathematical Science, as per Schedule D.....	2,550 00
Natural or Physical Science, as per Schedule E.....	7,520 43
Economic Science, as per Schedule F.....	650 00
Total expended during the year.....	\$25,080 54
Balance remaining unexpended July 1 1904.....	111 61

I hereby certify that the above account is correct and true, and, together with the schedules hereunto attached, truly represents the details of expenditures for the period and by the institution named; that said expenditures were applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural, and economic science, with special reference to their applications in the industries of life, and to the facilities for such instruction, and that no part of these funds was expended for the erection, preservation, or repair of any building or buildings.

L. F. KIESEWETTER.
Treasurer.

The fact that it has already been necessary to require several institutions to replace sums of money erroneously expended from this fund makes it advisable to call attention again to the limitations placed by the act of Congress of August 30, 1890, upon the use of money appropriated by it, which is "TO BE APPLIED ONLY TO INSTRUCTION IN AGRICULTURE, THE MECHANIC ARTS, THE ENGLISH LANGUAGE, AND THE VARIOUS BRANCHES OF MATHEMATICAL, PHYSICAL, NATURAL, AND ECONOMIC SCIENCE, WITH SPECIAL REFERENCE TO THEIR APPLICATIONS IN THE INDUSTRIES OF LIFE, AND TO THE FACILITIES FOR SUCH INSTRUCTION." It is held that this language authorizes the purchase from this money of apparatus, machinery, text-books, reference books, stock, and material used in instruction, or for the purpose of illustration in connection with any of the branches enumerated, and the payment of salaries of instructors in said branches only. The erection of buildings is specifically prohibited by the act, and the Assistant Attorney-General has decided that the purchase of land is not allowable. It should not be expended for heating or lighting buildings, repairs, furniture, cases, shelving, desks, musical instruments, the salaries of instructors in philosophy, psychology, ethics, logic, his-political science, civics, pedagogy, ancient and modern languages (except English), or for the salaries of presidents, treasurers, secretaries, book-keepers, janitors, watchmen, etc. Neither can charges for cashing the checks of the United States Government be paid out of this fund. In short, THE PLANT—the land, buildings, and ordinary appliances of a school—must be provided from other sources, and this particular fund must be applied exclusively to the subjects named in the act and the facilities especially required for those subjects.

SCHEDULE A.

Disbursements for instruction in Agriculture and for facilities for such instruction during the year ended June 30, 1904.

I.—FOR SALARIES OF INSTRUCTORS.

Names of Instructors.	Subjects Taught for Which Paid from "Morrill Fund."	Amount.
H. C. Price, Professor of Agriculture....	Agriculture & Rural Economics.....	\$450 00
Jno. W. Decker, Professor of Dairying....	Dairy Husbandry.....	340 00
C. S. Plumb, Prof. of Am. Husbandry....	Animal Husbandry.....	400 00
Frank Ruhlen, Instructor.....	Zootechny.....	90 00
M. F. Miller, Instructor.....	Agronomy.....	200 00
E. F. Mangold, Instructor.....	Cheese-making.....	50 00
Henry A. Weber, Professor.....	Agricultural Chemistry.....	450 00
Alfred Vivian, Associate Professor.....	Agricultural Chemistry.....	300 00
Rudolph Hirsch, Instructor.....	Agricultural Chemistry.....	60 00
W. R. Lazenby, Professor.....	Horticulture and Forestry.....	450 00
V. H. Davis, Assistant Professor.....	Horticulture and Forestry.....	166 66
D. S. White, Professor.....	Veterinary Medicine.....	400 00
S. Sisson, Associate Professor.....	Veterinary Medicine.....	340 00
O. V. Brumley, Assistant Professor.....	Veterinary Medicine.....	200 00
D. H. Udall, Associate Professor.....	Veterinary Medicine.....	290 00
II.—For facilities as follows:		
Harness, \$171.15; One bull, \$200; Cow, \$40.....		411 15
Cow, \$135; Cows, \$635; Bull, \$500; Cow, \$120.....		1,390 00
Repairs farm machinery.....		59 55
Total.....		\$6,047 36

SCHEDULE B.

Disbursements for instruction in Mechanic Arts and for facilities for such instruction during the year ended June 30, 1904.

I.—FOR SALARIES OF INSTRUCTORS.

Names of Instructors.	Subjects Taught for Which paid from "Morrill Fund."	Amount.
Jos. N. Bradford, Professor.....	Architecture and Drawing.....	\$420 00
Thos. E. French, Associate Professor....	Architecture and Drawing.....	300 00
Thos. K. Lewis, Instructor.....	Architecture and Drawing.....	200 00
Silas Martin, Instructor.....	Architecture and Drawing.....	200 00
J. H. Vosskuehler, Instructor.....	Architecture and Drawing.....	240 00
J. S. Tidball, Instructor.....	Architecture and Drawing.....	80 00
C. E. Sherman, Professor.....	Civil Engineering.....	360 00
A. H. Heller, Professor.....	Civil Engineering.....	360 00
F. H. Eno, Associate Professor.....	Civil Engineering.....	300 00
H. D. Brunning, Instructor.....	Civil Engineering.....	250 00
Edw. Orton, Professor.....	Ceramics.....	400 00
A. V. Bleininger, Instructor.....	Ceramics.....	200 00
F. C. Caldwell, Professor.....	Elec. Engineering.....	380 00
F. A. Fish, Assistant Professor.....	Electrical Engineering.....	220 00
F. E. Sanborn, Professor.....	Industrial Arts.....	400 00
W. A. Knight, Assistant Professor.....	Machine Shop Practice.....	240 00

SCHEDULE B—Concluded.

W. H. Renck, Instructor.....	Pattern Making and Founding ..	\$220 00
C. P. Crowe, Instructor.....	Forging.....	200 00
Allando Case, Machinist.....	Machine Work.....	66 00
W. F. Magruder, Professor.....	Mechanical Engineering.....	450 00
E. A. Hitchcock, Professor.....	Experimental Engineering.....	350 00
H. P. Judd, Assistant Professor.....	Experimental Engineering.....	240 00
Frank A. Ray, Professor.....	Mine Engineering.....	400 00
II.—For facilities as follows:		
Department of Industrial Arts—Iron for shop work.....		66 75
Total.....		\$6,542 75

SCHEDULE C.

Disbursements for instruction in English Language and for facilities for such instruction during the year ended June 30, 1904.

I.—FOR SALARIES OF INSTRUCTORS.

Names of Instructors.	Subjects Taught for Which Paid from "Morrill Fund."	Amount.
A. C. Barrows, Professor.....	English Literature.....	\$450 00
J. R. Taylor, Associate Professor.....	English Literature.....	300 00
J. V. Denny, Professor.....	English Language and Rhetoric.....	500 00
W. L. Graves, Assistant Professor.....	English Language and Rhetoric.....	260 00
Geo. H. McKnight, Assistant Professor..	English Language and Rhetoric.....	260 00
Total.....		\$1,770 00

SCHEDULE D.

Disbursements for instruction in Mathematical Science and for facilities for such instruction during the year ended June 30, 1904.

I.—FOR SALARIES OF INSTRUCTORS.

Names of Instructors.	Subjects Taught for Which Paid from "Morrill Fund."	Amount.
H. C. Lord, Professor.....	Astronomy.....	\$450 00
B. F. Maag, Assistant.....	Astronomy.....	200 00
R. D. Bohanan, Professor.....	Mathematics.....	450 00
Geo. W. McCoard, Associate Professor..	Mathematics.....	320 00
Jas. E. Boyd, Associate Professor.....	Mathematics.....	300 00
K. D. Swartzel, Associate Professor....	Mathematics.....	300 00
H. W. Kuhn, Assistant Professor.....	Mathematics.....	220 00
S. E. Rasor, Instructor.....	Mathematics.....	200 00
E. F. Coddington, Assistant Professor..	Mathematics.....	110 00
Total.....		\$2,550 00

SCHEDULE E.

Disbursements for instruction in Natural or Physical Science and for facilities for such instruction during the year ended June 30, 1904.

I.—FOR SALARIES OF INSTRUCTORS.

Name of Instructors.	Subjects Taught for Which Paid from "Morrill Fund."	Amount.
A. M. Bleile, Professor.....	Anatomy and Physiology.....	\$450 00
M. Dresbach, Instructor.....	Anatomy and Physiology.....	80 00
R. J. Seymour, Fellow.....	Anatomy and Physiology.....	25 00
C. B. Morrey, Associate Professor.....	Bacteriology.....	280 00
W. A. Kellerman, Professor.....	Botany.....	450 00
J. H. Schaffner, Associate Professor.....	Botany.....	260 00
O. E. Jennings, Assistant.....	Botany.....	50 00
S. A. Norton, E. Professor.....	Chemistry.....	250 00
W. McPherson, Professor.....	Chemistry.....	450 00
W. E. Henderson, Associate Professor.....	Chemistry.....	280 00
C. W. Foulk, Associate Professor.....	Chemistry.....	240 00
M. Mumma, Assistant.....	Chemistry.....	70 00
E. N. Webb, Assistant.....	Chemistry.....	60 00
Cath. Andrews, Assistant.....	Chemistry.....	60 00
C. S. Prosser, Professor.....	Geology.....	380 00
Jno. A. Bownocker, Professor.....	Geology.....	320 00
N. W. Lord, Professor.....	Metallurgy and Mineralogy.....	400 00
E. E. Somermeier, Instructor.....	Metallurgy and Mineralogy.....	220 00
Geo. B. Kauffman, Professor.....	Pharmacy.....	400 00
C. A. Dye, Assistant Professor.....	Pharmacy.....	110 00
B. F. Thomas, Professor.....	Physics.....	450 00
A. D. Cole, Professor.....	Physics.....	400 00
R. F. Earhart, Assistant Professor.....	Physics.....	200 00
L. B. Tuckerman, Assistant.....	Physics.....	70 00
H. Osborn, Professor.....	Zoology and Entomology.....	450 00
J. S. Hine, Associate Professor.....	Zoology and Entomology.....	120 00
F. L. Landacre, Associate Professor.....	Zoology and Entomology.....	120 00
II.—For facilities as follows:		
Objectives, \$53.20; Chemical Supplies, \$639.79.....		692 99
Instruments, \$126.84; Weights, \$55.60.....		182 44
Total.....		\$7,520 43

SCHEDULE F.

Disbursements for instruction in Economic Science and for facilities for such instruction during the year ended June 30, 1904.

I.—FOR SALARIES OF INSTRUCTORS.

Names of Instructors.	Subjects Taught for Which Paid from "Morrill Fund."	Amount.
Minnie A. Stoner, Professor.....	Domestic Science.....	\$360 00
Cornelia P. Souther, Associate Professor.....	Domestic Art.....	120 00
J. E. Hagerty, Associate Professor.....	Economic Science.....	120 00
W. E. Miller, Instructor.....	Economic Science.....	50 00
Total.....		\$650 00

The State has no material resources at all comparable with its citizens and no hope of perpetuity except in the intelligence and integrity of its people.

UNIVERSITY BULLETINS
SERIES 9 . . . NUMBER 2

OHIO STATE UNIVERSITY

THIRTY-FOURTH ANNUAL REPORT

— OF THE —

BOARD OF TRUSTEES

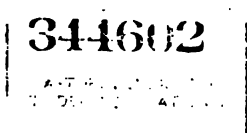
TO THE GOVERNOR OF OHIO
FOR THE YEAR ENDING JUNE 30, 1904

PART TWO



COLUMBUS
PUBLISHED BY THE UNIVERSITY
JUNE, 1904.

Entered at the Columbus Postoffice as Second-Class Matter.



[illegible]

1905.

BOARD OF TRUSTEES
1903-1904

		Term Expires.
PAUL JONES	Columbus	May 13, 1905.
OSCAR T. CORSON.....	Columbus	" 1906.
DAVID M. MASSIE.....	Chillicothe	" 1907.
JOHN T. MACK.....	Sandusky	" 1908.
MYRON T. HERRICK.....	Cleveland	" 1909.
GEORGE K. NASH	Columbus	" 1909.
GUY W. MALLON	Cincinnati	" 1910.
J. McLAIN SMITH	Dayton	" 1911.

OFFICERS OF THE BOARD.

PAUL JONES	President.
J. McLEAN SMITH	Vice President.
ALEXIS COPE	Secretary.
LOUIS F. KIESEWETTER	Treasurer.

COMMITTEES OF THE BOARD.

EXECUTIVE	FARM	FINANCE
J. McLAIN SMITH	J. McLAIN SMITH	D. M. MASSIE
PAUL JONES	JOHN T. MACK	PAUL JONES
GUY W. MALLON	OSCAR T. CORSON	MYRON T. HERRICK

FACULTY AND COURSES OF STUDY.

JOHN T. MACK	OSCAR T. CORSON	GUY W. MALLON
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DAYS AND DATES

1904

Summer Session, Lake Laboratory, Sandusky....	June 15 to September 15.
Summer Courses in Surveying.....	June 20 to July 18.
Summer Courses in Shopwork.....	June 22 to July 18.
Entrance Examinations (8 a. m.).....	{ Monday, September 19.
	{ Tuesday, September 20.
First Term begins—Registration Day.....	Tuesday, September 20.
Lectures and Class-work begin.....	Wednesday, September 21.
President's Annual Address (11 a. m.).....	Friday, September 23.
Meeting of Trustees.....	Wednesday, September 21.
Latest Date of Admission to candidacy for a degree at the Commencement of June, 1904....	Saturday, October 1.
Thanksgiving Recess	{ Thursday, November 24.
	{ Friday, November 25.
Latest date for filing Thesis subjects.....	Thursday, December 15.
First Term ends.....	Wednesday, December 21.
Christmas Vacation.	

1905

Second Term begins—Registration Day.....	Tuesday, January 3.
Washington's Birthday	Wednesday, February 22.
Second Term ends.....	Friday, March 31.
Spring Recess.	
Third Term begins—Registration Day.....	Wednesday, April 5.
Meeting of Trustees.....	Wednesday, April 5.
Field Day—Athletic Association.....	Saturday, May 13.
Senior Vacation begins.....	Saturday, May 27.
Competitive Drill—Cadet Battalion.....	Saturday, May 27.
Memorial Day	Tuesday, May 30.
Latest Date for Presenting Thesis.....	Friday, June 9.
Final Examinations	{ Friday, June 9.
	{ to
	{ Thursday, June 15.
Latest Date for Filing bound Copy of Thesis.....	Friday, June 15.
Baccalaureate Sermon	Sunday, June 18.
Entrance Examinations (8 a. m.).....	{ Monday, June 19.
	{ Tuesday, June 20.
Class Day	Monday, June 19.
Meeting of Trustees.....	Tuesday, June 20.
Alumni Day	Tuesday, June 20.
COMMENCEMENT	Wednesday, June 21.
Summer Vacation.	
Summer Session, Lake Laboratory, Sandusky....	June 15 to September 15.
Summer Courses in Surveying.....	June 16 to July 14.
Summer Courses in Shopwork.....	June 19 to July 15.
Entrance Examinations (8 a. m.).....	Monday, September 18.
First Term begins—Registration Day.....	Tuesday, September 19.
Lectures and Class-work begin (all Colleges).....	Wednesday, September 20.
Meeting of Trustees.....	Wednesday, September 20.
Annual Address by the President (11 a. m.).....	Friday, September 22.

ADMINISTRATIVE OFFICERS

THE UNIVERSITY

- WILLIAM OXLEY THOMPSON, D. D. LL. D.**.....President
Office, University Hall, Campus.
- ALEXIS COPE**.....Secretary to Board of Trustees and Bursar
Office, University Hall; office hours 8 to 12 a. m.; 2 to 5 p. m.
- WILBUR H. SIEBERT, M. A.**.....Secretary of the General Faculty
Office, University Hall.
- EDITH D. COCKINS, B. A.**.....Registrar
Office, University Hall; office hours 8 to 11:45 a. m.; 1:30 to 4 p. m., except Saturday.
- KATHARINE H. DUNCAN**.....Executive Clerk
Office, University Hall; office hours 8 to 11 a. m.; 1 to 4 p. m.; Saturday 9 to 11 a. m.
- CARL E. STEEB, B. Ph.**.....Accountant
Office, University Hall; office hours 8 to 12 a. m.; 2 to 5 p. m.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE.

- JOSEPH V. DENNEY, B. A.**.....Dean
Office, Registrar's office, University Hall; office hours 11 a. m., Monday and Friday, and at 12 m. Tuesdays and Thursdays.
- ALFRED D. COLE, M. A.**.....Secretary
Office, Registrar's office, University Hall; office hours 9 a. m. Monday and Wednesday; 10 a. m. Friday.
- GEORGE W. KNIGHT, Ph. D.**.....Chairman of the Administrative Board of the Graduate School.
Office, Room 15, University Hall; office hours 9 a. m. Monday, Tuesday and Thursday.
- BENJAMIN F. THOMAS, Ph. D.**.....Chairman of the Committee on Admission to Advanced Standing.
Office, Room 13, University Hall.

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE.

- HOMER C. PRICE, M. Sc.**.....Dean
Office, Townshend Hall.
- WILLIAM R. LAZENBY, M. Agr.**.....Secretary
Office, Horticultural Hall.

COLLEGE OF ENGINEERING.

- EDWARD ORTON, JR., E. M.**.....Dean
Office, Room 4, Orton Hall.
- FRANK E. SANBORN, S. B.**.....Secretary
Office, Brown Hall; office hours 9 to 10 a. m. daily, except Saturday.

OHIO STATE UNIVERSITY

7

COLLEGE OF LAW.

*WILLIAM F. HUNTERDean
Office, Page Hall.
WILLIAM H. PAGE, B. A., LL. M.....Secretary
Office, Page Hall.

COLLEGE OF PHARMACY.

GEORGE B. KAUFFMAN, B. S.....Dean
Office, Veterinary Laboratory.
WILLIAM McPHERSON, Ph. D.....Secretary
Office, Townshend Hall.

COLLEGE OF VETERINARY MEDICINE.

DAVID S. WHITE, D. V. M.....Dean
Office, 1b Veterinary Laboratory; office hours 1 p. m. daily.
SEPTIMUS SISSON, S. B., V. S.....Secretary
Office, 6b Veterinary Laboratory; office hours 1 p. m. daily.

OTHER OFFICERS.

WILLIAM W. BOYD, M. A.....High School Visitor
WILLIAM C. McCRACKEN.....Chief Engineer
Office, Power House.
JOHN A. BOWNOCKER, D. Sc.....Curator of Geological Museum
WILLIAM C. MILLS, B. Sc.....Curator of Archaeological Museum

* Died June 15, 1904.

UNIVERSITY FACULTY

Members of the University Faculty and Other Instructors

1902-1903

WILLIAM OXLEY THOMPSON.....University Grounds
President

A. B., Muskingum College, 1878; A. M., *ibid.*, 1881; D. D., *ibid.*, 1891; LL. D., Western University of Pennsylvania, 1897. Licensed by the Presbytery of Zanesville, Dresden, Ohio, April, 1881; Ordained by Presbytery of Fort Dodge, Iowa, July, 1882; Pastor Odebolt, Iowa, 1882-1885; Pastor Longmont, Colorado, 1885-'91; President Longmont College, 1885-89; President Miami University, 1891-99; present position since 1899.

THOMAS CORWIN MENDENHALL Florence, Italy
Emeritus Professor of Physics

Ph. D., Ohio State University, 1878; D. Sc. Rose Polytechnic Institute; LL. D., University of Michigan, 1887; Professor of Physics and Mechanics, Ohio State University, 1873-1878; Professor of Physics, Imperial University of Japan, 1878-1881; Professor of Physics, Ohio State University, 1881-1884; Professor U. S. Signal Corps, 1884-1886; President Rose Polytechnic Institute, 1886-1889; Superintendent U. S. Coast and Geodetic Survey, 1889-1894; President Worcester Polytechnic Institute, 1894-1901.

ROBERT WHITE McFARLAND.....Oxford, Ohio
Emeritus Professor of Civil Engineering

A. B., Ohio Wesleyan University, 1847; A. M., the same, 1850; LL. D., the same, 1881; Teacher in Academies, 1847-'51; Chillicothe Public Schools, 1852-'53; Professor of Mathematics and Astronomy, Madison College, 1853-'56; Professor, same chair, Miami University, 1856-'73; Captain 86th O. V. I., 1862; Lieutenant-Colonel of the same, 1863-64; Professor of Mathematics, Astronomy and Civil Engineering, Ohio State University, 1873-85; State Inspector of Railroads 1881-85; President of Miami University 1885-88; Civil and Mining Engineer 1888-99.

SIDNEY AUGUSTUS NORTON.....363 East Town Street
Emeritus Professor of Chemistry

A. B., Union, 1856; A. M., Union, 1859; M. D., Miami Medical College, 1867; Ph. D., Kenyon, 1878; LL. D., Wooster, 1881; LL. D., Union, 1889; Student at Bonn, Lelapsic, Heidelberg; Teacher, Poughkeepsie Collegiate Academy, 1856; Tutor, Union, 1857; Principal Hamilton (Ohio) High School, 1858; Instructor of Natural Science, Cleveland High Schools, 1859-'66; Teacher of Natural Science, Mt. Auburn, 1866-'72; Professor of Chemistry, Miami, 1867-'72; Acting Professor of Physics, Union, 1872-'73; Professor of Chemistry, Ohio State University, 1873-'95; Lecturer in Chemistry, 1895-'99; present position since 1899.

STILLMAN W. ROBINSON.....1353 Highland Street
Emeritus Professor of Mechanical Engineering

C. E., University of Michigan, 1863; D. Sc., Ohio State University, 1896; Assistant Engineer U. S. Lake Survey, 1863-'66; Instructor in Engineering, University of Michigan, 1866-'67; Assistant Professor Mining Engineering and Geodesy, University of Michigan, 1867-'70; Professor Mechanical Engineering and Physics, University of Illinois, 1870-'78; Professor Mechanical Engineering and Physics, Ohio State University, 1878-'81; Professor Mechanical Engineering, Ohio State University, 1881-'95 (Resigned in 1895); Consulting Mechanical Engineer and Inventor for Wire Grip and McKay Shoe Machinery Companies, 1884-'98; Elected Emeritus Professor of Mechanical Engineering, Ohio State University, 1899; State Inspector of Railroads and Bridges, 1880-'84; Consulting Engineer Santa Fe R. R., 1887-'90; Consulting Engineer Lick Telescope and Mountings, 1887.

WILLIAM HENRY SCOTT.....131 Fifteenth Avenue
Professor of Philosophy

B. A., Ohio University, 1862; M. A., Ohio University, 1865; LL. D., Ohio University and Ohio Wesleyan, 1884; Superintendent of Public Schools, Athens, Ohio, 1862-'64; Principal of the Preparatory Department of Ohio University, 1864-'66; Pastor of Main Street (now Trinity) M. E. Church, Chillicothe, Ohio, 1865-'67; Pastor of Town Street (now First) M. E. Church, Columbus, Ohio, 1867-'69; Professor of Greek, Ohio Univer-

sity, 1869-'72; President and Professor of Philosophy, Ohio University, 1872-'83; President and Professor of Philosophy, Ohio State University, 1883-'95; present position since 1895.

NATHANIEL WRIGHT LORD.....338 West Eighth Avenue
Professor of Mineralogy and Metallurgy, Director of the School of Mines.

E. M., Columbia, 1876; Assistant Engineer, Cincinnati, 1877; Engineer and Metallurgist Monte Grande Gold Mining Co., Nicaragua, 1878; Assistant School of Mines, O. S. U., 1879; Chemist Ohio Geological Survey, 1880-'88; Assistant Professor of Mining and Metallurgy, O. S. U., 1880-'87; Professor Mining and Metallurgy, O. S. U., 1887-'91; Professor Metallurgy and Mineralogy, O. S. U., 1896; Chemist State Board of Agriculture, 1881-'99; Chemist State Board of Health, 1896-'98; present position since 1896.

†**SAMUEL CARROLL DERBY**93 Fifteenth Avenue
Professor of Latin

A. B., Harvard, 1866; A. M., Harvard, 1869 (in course), 1877 (by examination); Principal of Schools, Iilon, N. Y., 1866-'67; Assistant in Dixwell's Classical School, Boston, 1867-'70; Professor of Latin, Antioch, 1870-'81; President, Antioch, 1877-'81; Student, Latin and History, Harvard, 1876-'77; Student, Latin and History, Johns Hopkins, 1880-'81; Student, Latin, Harvard, 1892-'93; present position since 1881.

WILLIAM RANE LAZENBY.....348 West Eighth Avenue
Professor of Horticulture and Forestry

B. Agr., Cornell, 1874; M. Agr., Iowa Agricultural College, 1887; Instructor Horticulture and Botany, Cornell, 1874-'77; Assistant Professor of Horticulture, Cornell, 1877-'81; Lecturer, N. Y. State Grange, 1874-'81; Director Ohio U. S. Experiment Station, 1882-'87; Professor of Botany and Horticulture, Ohio State University, 1881-'92; Collaborator United States Bureau of Forestry, 1901-'04; present position since 1892.

JOSIAH RENICK SMITH.....950 Madison Avenue
Professor of the Greek Language and Literature

A. B., Amherst, 1871; A. M., Amherst, 1883; Principal, Mound Street School, Columbus, 1871-'73; Teacher, Columbus High School, 1873-'76; Assistant Professor of Ancient Languages, Ohio State University, 1876-'81; Student at Leipzig, 1881-'83; present position since 1883.

HENRY ADAM WEBER.....1342 Forsythe Avenue
Professor of Agricultural Chemistry

Graduate of Polytechnic School, Kaiserslautern, 1866; Student, Chemistry under Von Liebig and Reischauer, and of Mineralogy under Von Kobell, Munich, 1866-'68; Ph. D., Ohio State University, 1879; Ohio Geological Survey, Chemical Department, 1869-'74; Professor of General Chemistry and Mineralogy, University of Illinois, 1874-'82; Chemist to State Board of Agriculture, Illinois, 1874-'82; Chemist to State Board of Health, Illinois, 1874-'82; State Chemist and Chief Chemist to Ohio State Dairy and Food Commissioner, 1885-'97; present position since 1884.

BENJAMIN FRANKLIN THOMAS.....University Grounds
Professor of Physics, and State Sealer of Weights and Measures

B. Sc., Ripon, 1874; M. Sc., Ripon, 1877; Ph. D., Stevens Institute, 1880; Instructor in Mathematics and Physics, Carleton College, Northfield, Minnesota, 1876-'79; Professor of Physics, University of Missouri, 1880-'85; Member of the Board of Examiners at the International Electrical Exhibition at Philadelphia, 1884; Member of the Jury of Awards, Department of Electricity, at the World's Columbian Exposition, Chicago, 1893; present position since 1886.

GEORGE WELLS KNIGHT.....85 Jefferson Avenue
Professor of American History and Political Science and of Law

A. B., University of Michigan, 1878; A. M., University of Michigan, 1883; Ph. D., University of Michigan, 1884; Student, Law, University of Michigan, 1878-'79; Principal of High School, Lansing, Michigan, 1879-'81; Student, History and Political Science, University of Michigan, 1882-'84; Instructor in History, Ann Arbor High School, 1883-'85; Professor of History and English Literature, Ohio State University, 1885-'87; Professor of History and Political Science, Ohio State University, 1887-'98; Student at Universities of Halle, Berlin, and Freiburg, 1889-'90; present position since 1893.

ROSSER DANIEL BOHANNAN.....Sixteenth and Indianola Avenues
Professor of Mathematics

B. Sc., C. E., E. M., University of Virginia, 1876; Student of Mathematics and Physics, Cambridge, England, 1880-'82; Gottingen, 1882-'83; Teacher of Mathematics and Latin, Suffolk Collegiate Institute, Virginia, 1876-'77; Teacher of Mathematics and English, New York Latin School, New York City, 1877-'78; Professor of Mathematics and Natural Science, Emory and Henry College, 1878-'80; Acting Professor of Mathematics, University of Virginia, 1883-'84; Assistant in Mathematics and Physics, University of Virginia, 1884-'87; Professor of Mathematics and Astronomy, Ohio State University, 1887-'95; present position since 1895.

†Absent on leave.

ALBERT MARTIN BLEILE.....218 King Avenue
Professor of Anatomy and Physiology.

M. D., Starling Medical College, 1876; Student, Vienna, Chemistry and Physiology, 1876-'77; Student, Physiology, Leipzig, 1877-'78; Student Anatomy and Histology, Paris, 1878-'79; Lecturer on Experimental Physiology, Starling Medical College, 1879; Professor of Physiology, Starling Medical College, 1884; present position since 1891.

WILLIAM ASHBROOK KELLERMAN.....175 Eleventh Avenue
Professor of Botany

B. Sc., Cornell, 1874; Ph. D., Zurich, 1881; Professor of Natural Science, Wisconsin State Normal School, 1874-'79; Professor of Botany and Horticulture, Kentucky State College, 1881-'82; Professor of Botany and Zoology, Kansas State Agricultural College, 1883-'87; Professor of Botany, Kansas State Agricultural College, 1881-'91; Botanist, Kansas State Board of Agriculture, 1883-'91; Ohio Geological Survey (Botany) 1892-'93; Founder and Editor of the Journal of Mycology; present position since 1891.

GEORGE BEECHER KAUFFMAN.....University Grounds
Professor of Pharmacy, and Dean of the College of Pharmacy

B. Sc., Ohio Wesleyan University, 1877; Pharm. D., Scio., 1894; Associate Professor of Pharmacy, Ohio State University, to 1894; present position since 1894.

BENJAMIN LESTER BOWEN.....775 East Broad Street
Professor of Romance Languages and Literatures

A. B., University of Rochester, 1881; Ph. D., Johns Hopkins University, 1888; graduate work, University of Rochester, 1881-'82; Professor of Languages, New Windsor College, Maryland, 1882-'83; Graduate Student and Assistant in French, Johns Hopkins University, 1883-'86, and 1887-'88; Student at the Universities of Paris, Bonn, Rome and Madrid, 1886, and 1886-'87; Professor of French and Latin, Bowdoin College 1888-'89; Acting Associate Professor of French Language and Literature, Ohio State University, 1889-'90; Associate Professor of Romance Languages and Literatures, Ohio State University, 1890-'94; present position since 1894.

JOSEPH VILLIERS DENNEY.....230 West Tenth Avenue
Professor of Rhetoric and the English Language, and Dean of the College of Arts, Philosophy and Science

A. B., University of Michigan, 1885; Journalist, 1885-'88; Principal of the Aurora (Illinois) High School, 1888-'90; Instructor in English and Graduate Student, University of Michigan, 1890-'91; Associate Professor of Rhetoric, Ohio State University, 1891-'94; present position since 1894.

ALLEN CAMPBELL BARROWS.....85 West Tenth Avenue
Professor of English Literature

A. B., Western Reserve, 1861; A. M., Western Reserve, 1866; D. D., Iowa College, 1889; Teacher, Latin and Greek, Phillips Academy, 1865-'66; Professor of Physics, Western Reserve, 1866-'70; Professor of Latin and English Literature, Western Reserve, 1870-'71; Professor of English Literature and History, Iowa Agricultural College, 1887-'94; present position since 1894.

EDWARD ORTON, JR......The Normandie
Professor and Director of the Department of Clay-Working and Ceramics and Dean of the College of Engineering

E. M., Ohio State University, 1884; Assistant on Ohio Geological Survey, 1882; Chemist for Columbus and Hocking Coal and Iron Company, 1885-'86; Superintendent of Blast Furnace at New Straitsville, O., 1887-'88; Superintendent of Victoria Furnace, Goshen Bridge, Va., 1888; Steel Worker, Homestead Steel Works, Homestead, Pa., 1889; Superintendent Ohio Paving Company's Factory, Columbus, Ohio, 1890-'92; Special Assistant on Clays, Ohio Geological Survey, 1892; Superintendent Acme Vitrified Brick Co., Louisville, Kentucky, 1893; Secretary American Ceramic Society, 1899; State Geologist of Ohio, 1899; present position since May, 1894.

***WILLIAM FORREST HUNTER** 1032 Bryden Road
Professor of Law and Dean of the College of Law

Admitted to the Bar in 1861; Student, University of Michigan Law School; practicing attorney since 1866; Dean of the Law School, Ohio State University, 1892-'96; present position since 1896.

***JAMES HENRY COLLINS**The Chittenden; New Hayden Building
Professor of Law

In practice for thirty years; present position since 1891.

*Died June 15th, 1904.

*Died January 8th, 1904.

EMILIUS OVIATT RANDALL257 Woodland Avenue, Supreme Court Building
Professor of Law

Ph. B., Cornell, 1874; LL. B., LL. M., Ohio State University, 1892; admitted to practice, 1890; Secretary Ohio State Historical Society; Reporter Supreme Court of Ohio; present position since 1893.

WILLIAM THOMAS MAGRUDER.....191 King Avenue
Professor of Mechanical Engineering

M. E., Stevens Institute of Technology, 1881; Practical Experience in Machine Design and Shop Practice, Taunton, Mass., 1881-'86; Student in Chemistry and Mathematics, etc., Johns Hopkins University, 1886-'87; Adjunct Professor of Mechanical Engineering (practical and theoretical) Vanderbilt University, 1887-'96; present position since July, 1896.

EDGAR BENTON KINKEAD.....Wyandotte Avenue; New Hayden Building
Professor of Law

M. A., Marietta College, 1904; Assistant State Law Librarian, 1887-'94; In practice since 1891, Special Counsel for Attorney-General of Ohio, 1897-1900; present position since 1895.

WILLIAM HERBERT PAGE.....1068 Franklin Avenue; 27 Board of Trade
Professor of Law

B. A., Yale, 1889; LL. B., Ohio State University, 1892; LL. M., same institution, 1894; Instructor in Central High School, Columbus, Ohio, 1889-'96; present position since September, 1896.

WILLIAM McPHERSON.....University Campus
Professor of Chemistry

B. Sc., Ohio State University, 1887; M. Sc., Ohio State University, 1890; D. Sc., Ohio State University, 1895; Ph. D., University of Chicago, 1899; Instructor in Chemistry and Physics, Toledo High School, 1887-'89; Instructor in Chemistry and Latin, Toledo High School and Manual Training School, 1889-'92; Assistant in Chemistry, Ohio State University, 1892-'93; Assistant Professor in Chemistry, Ohio State University 1893-'95; Associate Professor, General Chemistry, Ohio State University, 1895-'97; present position since 1897.

JOSEPH NELSON BRADFORD.....54 West Tenth Avenue
Professor of Architecture and Drawing

M. E., Ohio State University, 1883; Draftsman, Ohio Geological Survey, 1882-'83; Motor Power Department, Pennsylvania Railroad, 1883-'85; Assistant in Mechanical Engineering and Drawing, Ohio State University, 1885-'90; Assistant Professor of Drawing, Ohio State University, 1890-'93; Associate Professor of Drawing, Ohio State University, 1893-'99; present position since 1899.

DAVID STUART WHITEWest Fifth Avenue
Professor of Veterinary Medicine, and Dean of the College of Veterinary Medicine

D. V. S., Ohio State University, 1890; Student, Royal Veterinary Schools of Hannover, Berlin, 1890-'91; at Imperial Veterinary Institute of Vienna, 1892; Royal Veterinary College, of Dresden, 1893; Assistant in Veterinary Medicine, Ohio State University, 1893-'95; present position since 1895.

HERBERT OSBORN.....485 King Avenue
Professor of Zoology and Entomology

B. Sc., Iowa Agricultural College, 1879; M. Sc., same institution, 1880; Student of Entomology at Museum Comparative Zoology (Cambridge, Mass.) 1881-82; College of Physicians and Surgeons, Des Moines, 1884-'85 (Anatomy and Physiology); Zoological Station, Naples (Smithsonian table), 1894-'95; Assistant in Zoology and Entomology, Iowa Agricultural College, 1880-1883; Assistant Professor of Zoology and Entomology, Iowa Agricultural College, 1884-'85; Professor of Zoology and Entomology, Iowa Agricultural College, 1886-'94; Special Agent Division of Entomology, U. S. Department of Agriculture, 1885-'94; Entomologist, Iowa Experiment Station, 1890-'98; State Entomologist, Iowa, 1898; present position since 1898.

CHRISTOPHER P. LINHART.....O. S. U. Gymnasium; The Vendome
Professor of Physical Education and Director of the Gymnasium.

M. D., Western Reserve University, Cleveland, 1882; Post Graduate Student, same institution, 1882-'83; Student and Instructor, Dr. Anderson's Normal School of Physical Education, 1886; Student in Harvard Summer School, 1887; House Physician and Surgeon, Cleveland City Hospital, 1883-'85; Assistant Demonstrator of Anatomy, Western Reserve University, 1885-'86, and Assistant Visiting Physician, Charity Hospital, Cleveland, 1886; Director of Y. M. C. A. Gymnasium, Orange, N. J., 1886 and 1888; Instructor in Physiology and Physical Education, Newark (N. J.) Academy, 1887 and 1890, and Director of Physical Education, Newark (N. J.) Public Schools, 1888-'90; Medical

Director Manhattan Athletic Club, 1891 and 1892; Instructor in Physiology and Physical Education, Union College, 1892-'97; Director of the Gymnasium and Instructor in Physical Education, O. S. U., 1897-1900; present position since 1900.

OLIVE B. JONES95 Eleventh Avenue
Librarian

Assistant Librarian, 1887; present position since 1893.

HENRY CURWEN LORD.....University Grounds
Professor of Astronomy and Director of the Emerson McMillen Observatory

B. Sc., University of Wisconsin, 1889; Assistant in Washburn Observatory, University of Wisconsin; with Thompson-Houston Electric Company, 1889; Assistant in Mathematics and Astronomy, Ohio State University, 1891-'94; Director and Associate Professor of Astronomy O. S. U., 1895-1900; elected Fellow, Royal Astronomical Society, 1897; present position since 1900.

FRANK EDWIN SANBORN.....303 West Eighth Avenue
Professor and Director of the Department of Industrial Arts

S. B., in Mechanical Engineering, Massachusetts Institute of Technology, 1889; Assistant in Drawing, Massachusetts Institute of Technology, 1889-'90; Teacher in Manual High School Department, Pratt Institute, 1890-'91; Walker Special Instructor, Tufts College, 1891-'94; Instructor in Mechanical Department, Tufts College, 1894-'98; Director of the Department of Industrial Arts, O. S. U., 1898-1900; present position since September, 1900.

FRANK ARNOLD RAY.....137 King Avenue
Professor of Mine Engineering

E. M., Ohio State University, 1887; Superintendent Building Construction, Elah Terral & Co., 1887-'88; Assistant Mining Engineer of C. & H. C. & I. Co., 1888-'89; Chief Engineer C. & H. C. & I. Co., 1899-92; Chief Engineer Congo Mining Co., 1892-'95; Assistant Professor of Mine Engineering, O. S. U., 1895-'97; Associate Professor, 1897-1900; present position since 1900.

***FREDERICK CONVERSE CLARK 1634 Nell Avenue**
Professor of Economics and Sociology

A. B., University of Michigan, 1887; A. M., University of Michigan, 1888; Ph. D., University of Michigan, 1891; Student at Halle, Leipzig and Berlin, 1893-'95; Instructor in History and Economics, Ann Arbor High School, 1888-'92; Assistant Professor of Political Science, and Acting Head of the Department, Stanford University, 1892-'93; Assistant Professor of Political Economy, 1893; Assistant Professor of Economics and Sociology, Ohio State University, 1895-'98; Associate Professor, 1898-1900; present position since 1900.

JOHN ALLEN SHAUCK.....95 Winner Avenue; Supreme Court Building
Professor of Law

B. A., Otterbein University; LL. B., University of Michigan, 1867; A. M., Otterbein University, 1870; LL. D., Otterbein University, 1897; Judge of the Supreme Court of Ohio; Lecturer on Supreme Court Practice Ohio State University, 1898-1900; present position since 1900.

CAPT. GEORGE L. CONVERSE, U. S. A. (Retired)..94 Hoffman Ave., 23 East State St.
Professor of Military Science and Tactics

Present position since 1900.

JOHN WRIGHT DECKER.....325 West Eighth Avenue
Professor of Dairying

B. Agr., University of Wisconsin, 1890; Fellow in Agriculture, University of Wisconsin, 1890-'91; Instructor in Dairying, University of Wisconsin, 1891-'99; Associate Professor of Dairying, Ohio State University, 1899-1901; present position since 1901.

EMBURY ASBURY HITCHCOCK.....380 West Eighth Avenue
Professor of Experimental Engineering

M. E., Cornell, 1890; Straight Line Engine Company, Syracuse, N. Y., 1889; Corliss Steam Engine Company, Providence, R. I., 1890-'93; Assistant in Mechanical Engineering, Ohio State University, 1893-'95; Assistant Professor of Mechanical Engineering in charge of the Department, 1895-'96; Assistant Professor of Experimental Engineering, Ohio State University, 1896-'97; Associate Professor of Experimental Engineering, Ohio State University, 1897-1901; present position since 1901.

FRANCIS CARY CALDWELL.....401 West Sixth Avenue
Professor of Electrical Engineering

A. B., Cornell, 1890; M. E., Cornell, 1891; with Thomson-Houston Electric Co., Lynn, Mass., 1891-'92; Student at the National Polytechnic School, Zurich, 1892-'93;

***Died September 19th, 1903.**

Assistant Professor of Electrical Engineering, Ohio State University, 1893-'97; Associate Professor of Electrical Engineering, 1897-1901; present position since 1901.

CHARLES SMITH PROSSER.....114 West Tenth Avenue
Professor of Geology

B. S., Cornell University, 1883; M. S., Cornell University, 1886; Fellow in Natural History, Cornell, 1884-'85; Instructor in Paleontology, Cornell University, 1885-'88; Assistant Paleontologist, U. S. Geological Survey, 1888-'92; Professor of Natural History, Washburn College, Topeka, Kansas, 1892-'94; Assistant Geologist, U. S. Geological Survey, 1893-'94; Professor of Geology, Union College, Schenectady, N. Y., 1894-'99; Assistant Geologist, N. Y. Geological Survey, 1895-'99; Assistant Geologist, University Geological Survey of Kansas, 1896; Chief Appalachian Division, Maryland Geological Survey, 1898-1902; Assistant Geologist, Ohio Geological Survey and U. S. Geological Survey since 1900; Associate Professor of Historical Geology, Ohio State University, 1899-1901; present position since 1901.

JOHN ADAMS BOWNOCKER.....1594 Neil Avenue
Professor of Inorganic Geology and Curator of the Museum

B. Sc., Ohio State University, 1889; D. Sc., Ohio State University, 1897; Principal of High School, Martins Ferry, 1889-'92; Fellow in Geology, University of Chicago, 1892-'94; Graduate Scholar, Yale University, 1894-'95; Assistant Geological Survey of Ohio, 1892; Assistant Geological Survey of New Jersey, 1893; Assistant Geologist Ohio Survey, 1900; Assistant in Geology, 1895-'98; Assistant Professor, 1898-'99; Associate Professor of Inorganic Geology and Curator of the Museum, 1899-1901; present position since 1901.

ALFRED DODGE COLE 237 Eleventh Avenue
Professor of Physics

A. B., Brown University, 1884; A. M., 1887; Graduate Student, Johns Hopkins University, 1884-'85; Harvard University, Summer School, 1887; Student University of Berlin, 1894-'95; Graduate Student, University of Chicago, Summer, 1898; Instructor in Chemistry and Physics, Denison University, 1885-'87; Acting Professor, 1887-'88; Professor of Physics and Chemistry, 1888-1901; Graduate Student and Assistant in Physical Laboratory, University of Chicago, Summers of 1899 and 1900; present position since September, 1901.

MINNIE AVA NELLIE STONER95 West Eleventh Avenue
Professor of Domestic Science and Head of Department of Domestic Economy

B. Sc., South Dakota College, 1890; Assistant in South Dakota State Normal, Madison, S. D., 1890-'92; Student in Boston Normal School of Household Arts; 1892-'93; graduated in class '93 with Normal Diploma in Domestic Science and Art; Investigation at Harvard, 1893; Superintendent Y. W. C. A., Industrial School, Lincoln, Neb., 1894; Demonstration Lecture work at Fort Smith, Ark., 1895, in Mr. Aubrey's School; Professor of Domestic Arts, University of Tennessee, Knoxville, 1896-98; Dean of the Woman's Department and Professor of Domestic Science, Kansas State Agricultural College, 1898-1901; Investigations at Wesleyan University, Middletown, Conn., in Summer School of Biology and chemistry, 1902; investigation at Chicago University 1903; present position since 1901.

WILBUR HENRY SIEBERT182 West Tenth Avenue
Professor of European History and Secretary of the University Faculty

A. B., Ohio State University, 1888; A. B. (with honorable mention) Harvard University, 1889; M. A., Harvard, 1890; Student, Freiburg and Berlin, 1890-'91; Student, Harvard, 1895; Assistant in History and Political Science, Ohio State University, 1891-'93; Assistant Professor of History, Ohio State University, 1893-'96, 1897-'98; Student, Harvard University, 1896-'97; Associate Professor of European History, 1898; present position since 1902.

CHRISTOPHER ELIAS SHERMAN.....772 Oak Street
Professor of Civil Engineering

C. E., Ohio State University, 1894; engaged in Civil Engineering in Ohio, Tennessee, Virginia, North Carolina and Arizona for three years during college course; engaged in railroad, geological and governmental engineering from graduation until September, 1896; Engineer to Park Commission, Springfield, Ohio, and U. S. Assistant Engineer at Tampa, Florida, and Huntsville, Alabama, summer of 1898; U. S. Assistant Engineer on Roads and Bridges, Yellowstone National Park, summer of 1899 and 1900; Assistant in Civil Engineering, Ohio State University, 1896-'97; Assistant Professor of Civil Engineering, Ohio State University, 1897-1901; Associate Professor of Civil Engineering, Ohio State University, 1901-'02; present position since 1902.

ALBERT HENRY HELLER.....1249 Neil Avenue
Professor of Civil Engineering

C. E., Ohio State University, 1890; Draftsman, Massillon Bridge Co., 1890-'91; Draftsman, Mt. Vernon Bridge Co., 1892; Assistant Chief Engineer, The Youngstown Bridge Co., 1893-'99; Chief Engineer The Youngstown Bridge Co., 1899-1900; Assistant to Vice-President of the American Bridge Co., 1900; in charge of Operating Engineering Department of the American Bridge Co., at Pittsburgh, 1901; present position since 1902.

CHARLES SUMNER PLUMB.....107 West Eleventh Avenue
Professor of Animal Husbandry

B. S., Massachusetts Agricultural College, 1882; Associate Editor, "Rural New Yorker," 1883-'84; First Assistant, New York State Experiment Station, 1884-'87; Professor of Agriculture, University of Tennessee, and Assistant Director Tennessee Experiment Station, 1887-1890; Professor of Agricultural Science, Purdue University, 1890-'94; Professor Animal Industry and Dairying, Purdue University, 1894-1900; Professor Animal Industry, Purdue University, 1900-'02; Vice-Director Indiana Agricultural Experiment Station, 1890-'91; Director Indiana, Agricultural Experiment Station, 1891-1902; present position since 1902.

WILLIAM W. BOYD.....29 South Monroe Avenue
High School Visitor

B. A., Marietta College, 1884; M. A., Marietta College, 1887; teacher in public schools, 1884-'90; Superintendent of Schools at Marietta, 1890-'98; Superintendent of schools at Painesville, O., 1898-'02; Member of State Board of School Examiners, 1898-'02; present position since 1902.

SEPTIMUS SISSON 1619 Highland Street
Professor of Comparative Anatomy.

S. B., University of Chicago, 1898; Ontario Veterinary College, 1891; Demonstrator of Anatomy, Ontario Veterinary College, 1891-'99; Graduate Student, University of Chicago, Summer Quarters of 1900-'01; Associate Professor of Veterinary Science and Zoology, Kansas State Agricultural College, 1899; Professor of Zoology, *ibid.*, 1900; Associate Professor of Veterinary Medicine Ohio State University, 1901-1903; present position since 1903.

HOMER CHARLES PRICE 388 West Eighth Avenue
Professor of Rural Economics and Dean of the College of Agriculture and Domestic Science.

B. Sc. (Agr.) Ohio State University, 1897; M. S. A., Cornell University, 1899; Fellow in Agriculture, Cornell University, 1898-'99; Assistant in Horticulture, Ohio State University, 1899-1901; Professor of Horticulture and Forestry, Iowa State College, 1901-1903; present position since 1903.

LEWIS ADDISON RHOADES.....333 West Eighth Avenue
Professor of Germanic Languages and Literatures.

A. B., University of Michigan, 1884; A. M., *ibid.*, 1886; Ph. D., Göttingen, 1892; Teacher of English and Latin, Michigan Military Academy, 1884-'85; teacher of History and German, Ann Arbor High School, 1885-'88; Instructor in German, University of Michigan, 1888-'90; student at University of Göttingen, 1890-92; Instructor in German, Cornell University, 1893-'96; Professor of German, University of Illinois, 1896-1903; present position since 1903.

GEORGE WASHINGTON RIGHTMIRE..... 1523 Worthington Street
Professor of Law.

B. Ph., Ohio State University, 1895; A. M., *ibid.*, 1898. Teacher North High School Columbus, 1895-1902; instructor in American History and Political Science, Ohio State University, 1902-'03; present position since 1903.

SMITH WHITWORTH BENNETT.....171 King Avenue
Professor of Law.

Admitted to practice Supreme Court of Ohio, 1882; Supreme Court of the United States, 1898; Special Counsel in Office of Attorney General of Ohio since May 1898; present position since 1903.

GEORGE WASHINGTON MCCOARD.....797 Park Street
Associate Professor of Mathematics

B. A., Bethany, West Virginia, 1873; M. A., Bethany, 1882; Principal of Oakdale Classical Normal Institute, Allegheny County, Pennsylvania, 1873-'74; Private Tutor in Cleveland, Ohio, 1874-'80; Principal of Public Schools, Irving Park, Chicago, 1880-'81; Teacher of Latin and Mathematics, Columbus High School, 1881-'82; Assistant in Mathematics and Latin, Ohio State University, 1882-'87; Assistant Professor of Mathematics, Ohio State University, 1887-'99; present position since 1899.

***CHARLES WALTER MESLOH** University Grounds
Associate Professor of Germanic Languages and Literatures

A. B., Ohio State University, 1889; M. A., Ohio State University, 1895; Student in the University of Chicago, 1894; Student, University of Berlin, 1896-'97; Assistant in German, Ohio State University, 1889-'95; present position since 1895.

*Died March 15th, 1904.

ARTHUR WINFRED HODGMAN202 West Eighth Avenue
Associate Professor of the Classic Languages

A. B., Harvard, 1890; A. M., Harvard, 1893; Ph. D. (Classical Philology) Harvard, 1896; Student in Graduate School, Harvard (Classical Philology), 1892-'96; Instructor in Preparatory Schools, Quincy, Duxbury, Mass., 1890-'92; Assistant in Greek and Latin, Ohio State University, 1896-'97; Assistant Professor of the Classic Languages, Ohio State University, 1897-'99; present position since September, 1899.

†CORNELIA PORTER SOUTHER
Associate Professor of Domestic Art

Graduate of Mary Institute (Washington University), St. Louis, Mo., 1883; Certificated Student at Mary Institute, 1883-'85; Handarbeitslehrerinnen-Seminar des Carola-Vereins, Leipzig, 1896-'97; Investigations in Domestic Art Methods in foreign cities, 1896-'98; Teacher of Sewing, Mrs. Ball's Private School, St. Louis, 1898; Special Student at Pratt Institute, Brooklyn, and Teachers' College, Columbia University, New York, 1899; Assistant Professor of Domestic Art, Ohio State University, 1899-1900; present position since 1900.

†CLARA MAUD BERRYMAN 95 West Eleventh Avenue
Director and Associate Professor of Physical Education for Women

Graduated from Wisconsin Academy, 1893; University of Wisconsin, 1893-'95; Abroad 1896; graduated from Dr. Sargent's Normal School, Honors in Theory, 1900; graduate work, Harvard Summer School, 1902; present position since 1900.

WILLIAM EDWARDS HENDERSON.....182 West Tenth Avenue
Associate Professor of Chemistry

A. B., University of Wooster, 1891; Ph. D., Johns Hopkins University, 1897; Graduate Student, Johns Hopkins University, 1893-'97; Fellow in Chemistry, Johns Hopkins University, 1896-'97; Professor of Natural Sciences, College of Emporia, Kansas, 1891-'93; Professor of Chemistry, Ohio University, 1897-'99; Assistant Professor of Chemistry, Ohio State University, 1899-1901; present position since 1901.

JOSEPH RUSSELL TAYLOR448 West Seventh Avenue
Associate Professor of English Literature.

B. A., Ohio State University, 1887; M. A., Columbia University, 1897; Assistant in Drawing, Ohio State University, 1889-'94; Assistant in Rhetoric, Ohio State University, 1894-'97; University Fellow in Literature, Columbia University, 1896-'97; Assistant Professor of Rhetoric, Ohio State University, 1897-'99; Assistant Professor of English Literature, Ohio State University, 1899-1901; present position since 1901.

JAMES ELLSWORTH BOYD.....60 West Maynard Avenue
Associate Professor of Mathematics

B. Sc., Ohio State University, 1891; M. S., Cornell, 1896; Student in Physics and Mathematics, Ohio State University, 1893-'95; Student in Experimental and Theoretical Physics, Cornell, 1895-'96; also Student in Sibley College of Mechanic Arts, Cornell, summer of 1895; Assistant in Physics, Ohio State University, 1891-'95; held scholarship in Physics, Cornell, 1895; Assistant Professor of Physics, Ohio State University, 1896-1901; present position since September, 1901.

CHARLES A. BRUCE.....235 West Tenth Avenue
Associate Professor of the Romance Languages

A. B., Ohio State University, 1895; Student of French, Amherst, Summer School, 1895; Graduate Student, University of Chicago, Summer Quarter, 1896; Student, University of Geneva, Summer School, 1898; Student at the Sorbonne, College de France, and Ecole des Hautes-Etudes, Paris, 1898-'99; Graduate Student, University of Chicago, Summer Quarter, 1900; Assistant in French, Ohio State University, 1895-'99; Assistant Professor of Romance Languages, Ohio State University, 1899-1901; present position since 1901.

THOMAS EWING FRENCH.....1458 Worthington Street
Associate Professor of Architecture and Drawing

M. E., Ohio State University, 1895; Assistant in Drawing Department three years preceding graduation; Draftsman, The Smith-Valle Company, Dayton, 1888-'90; Instructor in Mechanical Drawing, Y. M. C. A., Dayton, 1888-'91; Chief Draftsman, The Smith-Valle Company, Dayton, 1891; Assistant in Drawing, 1892-'98; Assistant Professor of Drawing, 1898-1901; present position since 1901.

DAVID R. MAJOR 387 King Avenue
Associate Professor of Education

B. S., Wabash College, 1890; Ph. D., Cornell University, 1896; Higher Diploma in Education, Teachers' College, Columbia University, 1899; Principal of Schools, War-

†Resigned.

ren, Indiana, 1890-'92; Graduate Student in Philosophy and Sociology, Cornell University, 1892-'96; Scholar in Philosophy, 1894-'96; Fellow, 1895-'96; Principal of High School, Frankfort, Indiana, 1896-'98; Fellow in Education, Teachers' College, Columbia University, 1898-'99; Graduate Student, University of Chicago, Summer Quarter, 1899; Acting Professor of Pedagogy, University of Nebraska, 1899-1900; Assistant in Education, Teachers' College, Columbia University, 1900-'01; present position since 1901.

CHARLES WILLIAM FOULK 1656 Nell Avenue
Associate Professor of Chemistry

B. A., Ohio State University, 1894; Commercial Analytical Work, 1894-'96; Assistant in General Chemistry, 1896-'98; Student, Physical-Chemical Institute, Leipzig, 1899-1901; Assistant Professor of Chemistry, Ohio State University, 1898-1902; present position since 1902.

JOHN H. SCHAFFNER 40 West Tenth Avenue
Associate Professor of Botany

A. B., Baker University, Kansas, 1893; A. M., University of Michigan, 1894; M. S., Baker University, 1896; Student in Botany, Zoology and Geology, University of Michigan, 1893-'96; Student in Botany and Paleo-Botany, University of Chicago, 1896-'97; Assistant in Botany, University of Michigan, 1894-'96; Professor of Natural Sciences, South Dakota University, 1895-'96; Assistant in Botany, Ohio State University, 1897-'99; Assistant Professor of Botany, 1899-1902; present position since 1902.

CHARLES BRADFIELD MORREY 188 West Tenth Avenue
Associate Professor of Bacteriology.

B. A., Ohio State University, 1890; Post-graduate Student, Ohio State University, 1890-'91; M. D., Starling Medical College, 1896; Assistant in Latin, Ohio State University, 1890-'91; Assistant in Latin and Physiology, 1891-'92; Assistant in Physiology, Ohio State University, 1892-'97; Student in Vienna and Paris, 1897-'99; Assistant Professor of Anatomy and Physiology, Ohio State University, 1899-1902; Associate Professor of Anatomy and Physiology, Ohio State University, 1902-'03; present position since 1903.

JAMES STEWART HINE 1340 Hunter Avenue
Associate Professor of Zoology and Entomology

B. Sc. (H. and F.), Ohio State University, 1893; Superintendent of the N. W. Substation of the Ohio Agricultural Experiment Station, 1893; Assistant in Horticulture, Ohio State University, 1894; Student in Entomology, Cornell, 1895; Assistant in the Division of Entomology of the United States Department of Agriculture, summers of 1897 and 1899; Assistant in Entomology, 1895-'99; Assistant Professor of Zoology and Entomology, Ohio State University, 1899-1902; present position since 1902.

FRANCIS LEROY LANDACRE 299 West Sixth Avenue
Associate Professor in Zoology and Entomology

B. A., Ohio State University, 1895; Student in Chicago University, Summer Quarters of 1898 and of 1899; Professor of Embryology in Ohio Medical University since 1896; Assistant in Zoology and Entomology, Ohio State University, 1895-1900; Assistant Professor Zoology and Entomology, 1900-'02; present position since 1902.

WALLACE S. ELDEN 55 West Ninth Avenue
Associate Professor of Classic Languages

A. B., Bowdoin, 1889; A. M., Bowdoin, 1892; Ph. D., University of Michigan, 1900; Student in Johns Hopkins University, 1889-'90; Headmaster, Rectory School, Hamden, Conn., 1890-'91; Student in Johns Hopkins University, 1891-'92; Instructor in Latin and French, Ohio State University, 1892-'94; Instructor in the Romance Languages, University of Michigan, 1894-'96; Instructor in Latin and Greek, University of Maine, 1896-'97; Assistant Professor of the Classic Languages, University of Maine, 1897-'99; Student in the University of Michigan, 1899-1900; Assistant Professor of the Classic Languages, Ohio State University, 1900-'02; present position since September, 1902.

FRANK HARVEY ENO 251 West Ninth Avenue
Associate Professor of Civil Engineering

B. S., University of Illinois, 1891; C. E., University of Illinois, 1894; Assistant Engineer and Superintendent Department of "Water Supply, Sewerage and Fire Protection," World's Columbian Exposition, 1891-'93; Assistant to Consulting Engineer, Chicago, Ill., 1894-'96; City Engineer, Winnetka, Ills., 1896-'98; Assistant Engineer and Chief Draftsman, City Engineer's Office, Columbus, Ohio, 1898-1902; present position since 1902.

ALFRED VIVIAN 244 West Tenth Avenue
Associate Professor of Agricultural Chemistry

Ph. G., University of Wisconsin, 1894; Instructor in Pharmacognosy, University of Wisconsin, 1894-'95; Assistant in Agricultural Chemistry, University of Wisconsin,

1895-'97; Instructor in Agricultural Chemistry and Assistant Chemist to Experiment Station, 1897-1902; present position since 1902.

DENNIS HAMMOND UDALL 198 West Ninth Avenue
Associate Professor of Veterinary Surgery and Obstetrics

B. S. A., University of Vermont, 1898; D. V. M., New York State Veterinary College, 1901; Demonstrator in Anatomy, N. Y. S. V. C., 1900-'01; Private practice St. Johnsbury, Vt., 1901-'03. Present position since 1903.

MAY SECREST 162 West Tenth Avenue
Associate Professor of Domestic Art.

B. Sc., Kansas State Agricultural College, 1892; Diploma Teachers' College, Columbia University, 1902; Graduate Student of Chemistry, Kansas State Agricultural College, 1897-1898; Assistant in Domestic Art, Kansas State Agricultural College, 1899-1901; Director Domestic Science, State Normal School, Stevens Point, Wisconsin, 1902-1904; present position since 1904.

J. WARREN SMITH 1422 Oak Street
Lecturer on Meteorology

B. S., New Hampshire College of Agriculture and Mechanic Arts, 1888; M. S., N. H. C. of A. & M. A., 1899; special course in Meteorology at Harvard University in 1890 and 1891; employed in United States Weather Bureau since 1888; present position Section Director in charge Columbus Station and the Ohio Section of the Climate and Crop Division of the Bureau.

WILLIAM LUCIUS GRAVES 1313 Forsythe Avenue
Assistant Professor of Rhetoric and English Language

B. A., Ohio State University, 1893; M. A., Ohio State University, 1897; Instructor in High School, Coshocton, 1894-'95; Fellow and Assistant in Rhetoric and English Language, Ohio State University, 1895-'96; present position since 1896.

CLAIR ALBERT DYE 1569 Worthington Street
Assistant Professor of Pharmacy

G. Ph., Ohio State University, 1891; Post-graduate Student in Chemistry and Pharmacy, Ohio State University; Ph. D., University of Bern, 1901; Assistant in Chemistry and Pharmacy, 1890-'94; Assistant in Pharmacy, 1894-'98; present position since 1898.

CHARLES LINCOLN ARNOLD 328 West Eighth Avenue
Assistant Professor of Mathematics

B. Sc., Ohio State University, 1890; M. Sc., Ohio State University, 1894; Student, University of Chicago, summer term 1894-'95; Assistant in Mathematics, Ohio State University, 1890-'99; present position since 1899.

KARL DALE SWARTZEL 308 West Eighth Avenue
Assistant Professor of Mathematics

B. Sc., Ohio State University, 1893; M. Sc., Ohio State University, 1894; Fellow and Assistant in Mathematics, Ohio State University, 1894-'95; Assistant in Mathematics, Ohio State University, 1895-'96; Austin Scholar, Harvard University, 1902-'03; present position since 1899.

GEORGE H. MCKNIGHT 269 East Broad Street
Assistant Professor of Rhetoric and English Language

A. B., Cornell, 1892; Ph. D., Cornell, 1896; Instructor in English at Cornell, 1892-'97; Cornell Traveling Fellow in English Philology, 1897-'98; Student in Freiburg, 1897-'98; Student in Paris and London, 1898-'99; present position since 1899.

FRED A. FISH 241 West Fourth Avenue
Assistant Professor of Electrical Engineering

M. E. in E. E., Ohio State University, 1898; Fellow in Electrical Engineering, Ohio State University, 1898-'99; Assistant, 1899-1900; Honorary Fellow in Electrical Engineering, University of Wisconsin, 1900-'01; present position since 1901.

WILLIAM ABNER KNIGHT 206 West Lane Avenue
Assistant Professor of Machine Shop Practice

M. E., Ohio State University, 1900; thirteen years' practical experience in work-shops; Assistant in the Industrial Department and Foreman of the Machine Shops, 1893-'98; Assistant in Industrial Arts and Instructor in Machine Work, 1898-1900; Instructor in Machine Work, 1900-'01; present position since 1901.

†Absent on leave.

HARRY WALDO KUHN 308 West Eighth Avenue
Assistant Professor of Mathematics

B. Sc., Ohio State University, 1897; Ph. D., Cornell University, 1901; Fellow and Assistant in Mathematics, Ohio State University, 1897-'98; Oliver Scholar in Mathematics at Cornell, 1898-'99; Erastus Brooks Fellow in Mathematics, Cornell, 1899-1900; Assistant in Mathematics, Cornell, 1900-'01; present position since 1901.

JAMES E. HAGERTY 212 Tenth Avenue
Assistant Professor of Economics and Sociology and Acting Head of Department.

A. B., Indiana University, 1892; Ph. D., University of Pennsylvania, 1900; Instructor in Mathematics LaPorte High School, 1892-'96; Graduate Student University of Chicago, 1896-'97; Honorary Fellow in Economics, University of Wisconsin, 1897-'98; Student at Berlin and Halle, 1898-'99; Harrison Fellow in Sociology, University of Pennsylvania, 1899-1900; Senior Fellow in Sociology, University of Pennsylvania, 1900-'01; present position since 1903.

THEODORE C. SMITH 244 West Tenth Avenue
Assistant Professor of American History and Political Science

A. B., Harvard, 1892; A. M., Harvard, 1893; Ph. D., 1896; Graduate Student, Harvard, 1892-'94, 1895-'96; Fellow in American History, University of Wisconsin, 1894-'95; Ozias Goodwin Memorial Fellow, Harvard, 1896-'97; Student at Universities of Geneva, Paris and Berlin, 1896-'97; Instructor in History, University of Michigan, 1897-'98; Instructor in History, Vassar College, 1898-1900; present position since 1901.

FREDERICK EDWARD KESTER Göttingen, Germany
Assistant Professor of Physics

M. E. (in E. E.), Ohio State University, 1895; M. A., Cornell, 1899; Fellow and Assistant in Physics, Ohio State University, 1895-'97; Assistant in Physics, Ohio State University, 1897-'98; held scholarship in Physics, Cornell, 1898; Instructor in Physics, Ohio State University, 1899-1901; present position since 1901.

THOMAS HARVEY HAINES 396 King Avenue
Assistant Professor of Philosophy

B. A., Haverford College, Haverford, Pa., 1896; M. A., Haverford College, 1897; M. A., Harvard University, 1898; Ph. D., Harvard University, 1901; Assistant in Philosophy, Harvard University, 1898-'99; present position since 1901.

ALONZO HUBERT TUTTLE 215 West Tenth Avenue
Assistant Professor of American History and Political Science.

A. B., University of Michigan, 1896; A. M., ibid., 1903; Assistant Principal of High School, Ishpeming, Mich., 1896-'98; Principal of High School, Ironwood, Mich., 1898-1900; Instructor in American History and Political Science, Ohio State University, 1900-'02; Graduate Student, Universities of Wisconsin and Michigan, 1902-'03; present position since 1902.

VERNON H. DAVIS University Grounds
Assistant Professor of Horticulture and Forestry

B. Sc., (Agr.), Ohio State University, 1900; M. S. A., Cornell University, 1901; Assistant in Horticulture and Forestry, Ohio State University, 1901-'02; present position since 1902.

OSCAR V. BRUMLEY University Grounds
Assistant Professor of Veterinary Medicine

Veterinary Surgeon's Certificate, Ohio State University, 1897; practiced 1897-'98; Graduate Student in Royal Veterinary College, Berlin, Germany, 1902; present position since 1898.

HORACE JUDD 245 West Fourth Avenue
Assistant Professor of Experimental Engineering

M. E., Ohio State University, 1897; M. Sc., Ohio State University, 1899; Fellow and Laboratory Assistant in Mechanical Engineering, Ohio State University, 1897-'99; Student in Experimental Engineering at Cornell University and at Stevens Institute of Technology, summer of 1898; Instructor in Department of Science and Technology, Pratt Institute, 1899-1902; present position since 1902.

EDWIN F. CODDINGTON 39 West Eleventh Avenue
Acting Assistant Professor of Mathematics

C. E., Ohio State University, 1896; M. Sc., 1897; Ph. D., University of Berlin, 1902; Emerson McMillin Fellow in Astronomy, Ohio State University, 1896-'97; Fellow

†Resigned.

‡Absent on leave.

in Astronomy, Lick Observatory, University of California, 1897-1900; Student in University of Berlin, Germany, 1900-'02; present position since 1902.

EDGAR SHUGERT INGRAHAM 303 West Seventh Avenue
Assistant Professor of Romance Languages.

A. B., Colgate University 1897; Ph. D., University of Pennsylvania, 1903; Instructor in German, Colgate Academy, 1896-'97; Assistant in Modern Languages, Colgate College, 1897-'99; Student in France, summer of 1897-1898; University scholar in Romance Languages, Columbia University, 1899-1900; Student, University of Freiburg-in-Baden, summer semester 1900; Student at Sorbonne, Paris, 1900-01; University Scholar in Romance Languages, Columbia University, 1901-02; Instructor in Modern Languages, Blake School, New York City, 1901-'02; Harrison Fellow in Romanic Languages, University of Pennsylvania, 1902-'03; present position since 1903.

***MERRITT FINLEY MILLER** 1526 Worthington Street
Assistant Professor of Agronomy.

B. Sc., Ohio State University, 1900; M. S. A., Cornell University, 1901; Assistant in Bureau of Soils, United States Department of Agriculture, July 1, 1901, to January 1, 1902; Instructor in Agronomy, Ohio State University, 1902-'03; present position since 1903.

ROBERT F. EARHART 1656 Neil Avenue
Assistant Professor of Physics.

B. Sc., Northwestern University 1893; Ph. D., University of Chicago, 1900; Electrician People's Power Company, Moline, Illinois, 1893-'97; Graduate Student, Johns Hopkins University, 1897-'98; Graduate Student University of Chicago, 1898-'99; Fellow in Physics, University of Chicago, 1899-1900; Instructor in Physics, Michigan Military Academy, 1900-'01; Instructor in Physics, Rose Polytechnic Institute, 1901-'03; present position since 1903.

JAMES McILVAINE PHILLIPS
Assistant Professor of Veterinary Medicine.

M. D., University of Pennsylvania, 1898; Assistant Physician Municipal Hospital, Philadelphia, 1898-'99; Special Student Metropolitan Asylum Board Hospital, London, 1899; Lecturer on Pathology Starling Medical College, 1900; Assistant Physician, St. Francis Hospital, 1901-'02; present position since 1903.

GEORGE BURRIDGE VILES 229 West Eleventh Avenue
Assistant Professor of Germanic Languages and Literatures.

A. B., Harvard University, 1892; A. M., ibid., 1896; Ph. D., Cornell University, 1902; Student at the Sauveur Summer School of Languages, Exeter, N. H., 1892; Instructor in Modern Languages at the Worcester Polytechnic Institute, Worcester, Mass., 1892-'95; Student at the Sauveur Summer School of Languages, Rockford, Ill., 1893, and in Hanover, Summer of 1895; Instructor in German, Cornell University, 1896-1902; Student of the University of Leipzig and the Academie of Neuchatel, 1902-'03; Instructor in German at Cornell University, 1903-'04; present position since 1904.

WILLIAM C. MILLS 78 West Tenth Avenue
Curator of Archaeology

B. Sc. (H. and F.), Ohio State University, 1898; M. Sc., O. S. U., 1902; Curator and Librarian of the Ohio State Archaeological and Historical Society; Museum and Library, Page Hall, O. S. U.; Librarian Ohio Academy of Science, Library, Page Hall, O. S. U.

MAUDE WINIFRED MARTIN 1634 Neil Avenue
Director of Physical Education for Women.

Ph. B., Cornell University, 1900; Physical Instructor State Reformatory for Girls, Hudson, N. Y., 1901-'02; present position since 1903.

BURT BIDWELL HERRICK 167 Tenth Avenue
Instructor in Cheese Making
Present position since 1898.

WILLIAM HENRY RENCK 184 West Frambes Avenue
Instructor in Pattern Making and Founding

Assistant in Industrial Arts and Foreman of the Carpenter and Pattern Shops, O. S. U., 1899; present position since 1900.

CHARLES PHILIP CROWE Corner Eighth and Wesley Avenues
Instructor in Forging

Student, Ohio Business College, Delaware, Ohio; Lebanon Normal School, Lebanon, Ohio; Teacher in Public Schools of Delaware and Union Counties, two years; Forge shop experience, seven years; Manufacturer of Steel Forgings and Springs, six years; Assistant in Industrial Arts and Forge Master, O. S. U., 1899; present position since 1900.

*Resigned.

ARTHUR ERNEST DAVIES 93 Fifteenth Avenue
Instructor in Philosophy

Student in Owen's College, Manchester, England, and University College, London, 1884-'88; B. D., Yale Divinity School, 1891; Ph. D., Yale University, 1898; present position since 1900.

†ALBERT EARL VINSON 134 West Ninth Avenue
Instructor in Agricultural Chemistry

B. Sc., Ohio State University, 1901; Instructor in Chemistry, Y. M. C. A., Dayton, Ohio, 1896; Assistant in Agricultural Chemistry, Ohio State University, 1896-1901; present position since 1901.

THOMAS KENYON LEWIS 96 East Eighth Avenue
Instructor in Drawing

B. Sc., Ohio State University, 1894; Graduate Student, Ohio State University, 1894-'95; summer of 1897 and summer of 1898 at Cincinnati Art Academy; Assistant in Drawing, 1894-1901; present position since 1901.

SILAS MARTIN 317 Fifteenth Avenue
Instructor in Drawing

Studied Art with J. H. Witt, E. F. Andrews and Homier; Private Teacher in Art for twenty years; Assistant in Drawing, 1899-1901; present position since 1901.

JOSEPH HENRY VOSSKÜEHLER 54 West Tenth Avenue
Instructor in Drawing

M. E., Ohio State University, 1900; Assistant in Drawing Department two years preceding graduation; Draftsman Stilwell-Bierce-Smith-Valle Co., Dayton, Ohio, 1891-1900; Head of the Department of Drawing and Instructor in Mathematics, Miller Manual Labor School, Virginia, 1900-'01; present position since 1901.

ALBERT VICTOR BLENNINGER 116 West Ninth Avenue
Instructor in Ceramics

B. S. (Chemistry), 1901; Akron Paving Brick Co., 1890-'92; Cleveland Vitrified Pressed Brick Co., 1892-'95; Correspondent of "The Clay Worker," in Germany, 1895; Laboratory Assistant in Ceramics, 1898-99; Ohio Mining and Manufacturing Co., Shawnee, Ohio, summers 1898 and 1899; Editor American Ceramics Society's Translation of Seger's Gesammelte Schriften, 1900-'02; Assistant on Ohio Geological Survey, 1900 and 1901; present position since 1901.

BERTHOLD AUGUST EISENLOHR 377 King Avenue
Instructor in Germanic Languages

B. Ph., Ohio State University, 1898; Teacher of German and Physics, Portsmouth (Ohio) High School, 1892-'96; Assistant in German, Ohio State University, 1896-'97; Instructor in Columbus Latin School, 1897-'98; Instructor in Germanic Languages, Indiana University, 1900-'01; present position since 1901.

SAMUEL EUGENE RASOR 1594 Nell Avenue
Instructor in Mathematics

B. Sc., Ohio State University, 1898; M. A., Ohio State University, 1902; Fellow in Mathematics, Ohio State University, 1898-'99; Professor of Mathematics, Amity College, Iowa, 1899-1900; present position since 1901.

EDWARD EVERETT SOMMERMEIR 1590 Nell Avenue
Instructor in Metallurgy and Mineralogy

G. Ph., Ohio State University, 1898; Student Laboratory Assistant in Chemistry, 1897-'98; Assistant in Metallurgy and Mineralogy, 1898-1901; Chemical Assistant, Ohio Geological Survey since 1901; present position since 1901.

DON CARLOS HUDDLESON 450 West Seventh Avenue
Instructor in Physical Education

G. Ph., Ohio State University, 1897; Medical Student, 1897; Summer School of Physical Training, Chautauqua, 1898; Assistant in Gymnasium, 1898-1901; present position since 1901.

‡FRANK RUHLEN University Grounds
Instructor in Zootechny

B. Sc., Ohio State University, 1896; Assistant in Agriculture, Ohio State University, 1898-1902; present position since 1902.

†Absent on leave.

‡Resigned.

DELBERT ALONZO CROWNER.....West Jefferson, Ohio
Instructor in Butter Making

B. Sc., Ohio State University, 1896; present position since 1902.

MELVIN DRESBACH 377 West King Avenue
Instructor in Anatomy and Physiology

B. Sc., Ohio State University, 1897; M. Sc., Ohio State University, 1899; Assistant in Anatomy and Physiology, 1899-1902; M. D., Ohio Medical University, 1903; present position since 1902.

RUDOLPH HIRSCH.....1060 South Front Street
Instructor in Agricultural Chemistry

B. Sc., Ohio State University, 1901; Assistant in Agricultural Chemistry, 1901-'02; present position since 1902.

EDGAR HOLMES McNEAL.....1340 Highland Street
Instructor in European History

A. B., University of Chicago, 1896; Ph. D., University of Chicago, 1902; present position since 1902.

H. DIEDRICH BRUNING 768 Oak Street
Instructor in Civil Engineering

C. E., Ohio State University, 1896; on re-survey C. & M. Ry., 1896-'97; in Street and Sewer Department, City of Columbus, 1897; Assistant on Engineering Corps P., C., C. & St. L. Ry., 1897-1900; Assistant Engineer P., C., C. & St. L. Ry., 1900-'03; present position since 1903.

JOHN SATTERLEE TIDBALL.....35 Price Street
Instructor in Architecture and Drawing.

B. S., Cornell University, 1880; Student, Art Students' League, New York City; Assistant in Architecture and Drawing, Ohio State University, 1902-'03; present position since 1903.

HENRY RUSSELL SPENCER 1473 Neil Avenue
Instructor in American History and Political Science.

A. B., Colby College, 1899; A. M., Columbia University, 1901; Instructor, Coburn Classical Institute, 1899-1900; Graduate student, Columbia University, 1900-1903; Fellow in American History, Columbia University, 1902-1903; present position since 1903.

HARRIET TOWNSHEND.....53 West Eleventh Avenue
Assistant in Library

Present position since September, 1895.

MAUD DOROTHY JEFFREY.....1251 Neil Avenue
Assistant in Library

B. Ph., Ohio State University, 1895; Student of Library Science, Ohio State University, 1895-'96; Student of Library Science, Amherst, summer of 1897; present position since September, 1896.

GERTRUDE STOWELL KELLICOTT 156 West Sixth Avenue
Assistant in Library

Student, Ohio State University, 1883-'95; Student of Library Science, Ohio State University, 1895-'96; Student of Library Science, Amherst, summer of 1897; present position since September, 1896.

†**CLAUDE B. GUITTARD** 80 McMillen Avenue
Assistant in Library

Student in Ohio State University, 1892-'96; Assistant in Ohio State Library, 1897-'98; Student in Library Science, Washington, D. C., summer of 1899; present position since November, 1898.

†**WILLIAM L. DAVIES** 47 West Eighth Avenue
Assistant in Civil Engineering

SARAH TRACY BARROWS.....85 West Tenth Avenue
Assistant in Germanic Languages and Literatures.

B. L., Iowa State College, 1891; M. L., Cornell University, 1893; Student in the LehrerInnen Seminar, Hanover, Germany, 1896-'97; Teacher of German, Columbus North High School, 1897-1903; present position since 1901.

†Resigned.

- MARION WILSON MUMMA**.....47 West Tenth Avenue
Assistant in Chemistry
B. Sc., Ohio State University, 1901; Teacher of Science, High School, New Philadelphia, Ohio, 1901-'02; present position since 1902.
- LOUIS BRYANT TUCKERMAN, JR.**.....1451 Worthington Street
Assistant in Physics.
A. B., Adelbert College, 1901; Scholar in Physics, University of Nebraska, 1901-'02; present position since 1902.
- EDWARD NATHAN WEBB**.....144 West Ninth Avenue
Assistant in Chemistry
B. Sc., Ohio State University, 1902; M. A., Ohio State University, 1904.
- HERMINE DE NAGY** 1346 Highland Street
Assistant in Romance Languages.
- MARTHA HARTFORD** 65 West Eleventh Avenue
Assistant in Library
B. Ph., Ohio State University, 1902; Student in Library Science, Ohio State University, 1901-'02; present position since 1902.
- RAYMOND JESSE SEYMOUR**.....76 West Third Avenue
Assistant in Anatomy and Physiology
B. Sc., Ohio State University, 1900; M. Sc., Tufts College, 1901; present position since 1902.
- BENJAMIN FRANKLIN MAAG** 176 West Ninth Avenue
Assistant in Astronomy
B. Ph., Wooster University, 1893; M. Sc., Ohio State University, 1899; Teacher in High School, 1894-'97, 1900-'02; Fellow in Astronomy, Ohio State University, 1898-'99; present position since 1902.
- TOTTO EMERY JENNINGS** University Grounds
Assistant in Botany
- CATHERINE EMILY ANDREWS** 1013 East Broad Street
Assistant in Chemistry.
B. A., Wellesley College, 1901; M. A., Ohio State University, 1903.
- ROSS C. PURDY**245 West Eleventh Avenue
Assistant in Ceramics.
N. B. M. A. Scholarship; Assistant Superintendent of Mosaic Tile Co., Zanesville, Ohio, 1899-1901; Chemist and Foreman of Glazing and Burning Departments of The Roseville Pottery Co., Zanesville, Ohio, 1901-1902; Superintendent of The Buckeye Pottery Co., Macomb, Illinois, 1902; Private Assistant to Professor Orton, Jr., 1903-1904; present position since 1903.
- †WALTER RAYMOND JUDSON** 1550 Nell Avenue
Assistant in Mechanical Engineering.
- WALLACE ELDEN MILLER**468 Goodale Street
Temporary Assistant in Economics and Sociology.
A. B., Ohio Wesleyan University, 1897; A. M., Columbia University 1902; Graduate Student, Columbia University, 1897-'98; Assistant Principal Bethel High School, 1896-'99; Professor of History and Sociology, Southwest Kansas College, 1899-1901; President's scholar in Sociology, Columbia University, and resident at the University Settlement, New York, 1901-'02; student at University of Paris, 1902-'03; Head-Resident, Godman Guild (a social Settlement) Columbus, 1903-'04.
- LLOYD A. GRIGSBY** 1023 Nell Avenue
Temporary Assistant in Latin.
A. B. Kenyon, 1901; Assistant in DeKoven Hall, Tacoma, Washington, 1901-'02.
- ROY EDWIN CARTZDAFNER** 239 West Tenth Avenue
Assistant in Mechanical Engineering.
- HARLAN H. YORK** University Grounds
Assistant in Botany.

†Resigned.

- CYRUS ALAN MELICK 967 Say Avenue
Assistant in Civil Engineering.
- E. F. MANGOLD
Assistant in Dairy Laboratory.
- MARY MALLOY 1546 Highland Street
Fellow in Rhetoric and English Language
B. Ph., Ohio State University, 1901.
- JAMES GLOSSBRENNER SANDERS 128 West Tenth Avenue
Fellow in Zoology and Entomology.
Ph. B. Otterbein University, 1901; M. A. Ohio State University, 1903.
- GILBERT LEE PENNOCK 164 West Ninth Avenue
Fellow in Rhetoric and English Language.
B. A., Antioch College, 1902; M. A., Ohio State University, 1904.
- FREDERICK JOHN MUIRIE 1478 Pennsylvania Avenue
Fellow in Rhetoric.
B. A., Ohio State University, 1902.
- JAMES ANDERSON BEER 43 East Ninth Avenue
Fellow in Anatomy and Physiology.
B. Sc., Ohio State University, 1903.
- CLINTON GEORGE STEWART 169 West Eleventh Avenue
Fellow in Chemistry.
B. A., University of Michigan, 1897.
- JOHN ANDERSON WILKINSON 132 Tenth Avenue
Fellow in Chemistry.
B. Sc., Ohio State University 1903.
- CHARLES CLIFFORD HUNTINGTON 85 West Ninth Avenue
Fellow in Economics and Sociology.
B. Sc., Antioch College, 1896; B. Ph., Ohio State University, 1903.
- MAX DELOS MORTON 212 West Tenth Avenue
Fellow in Library.
B. Ph., Ohio State University, 1903.
- MAX WITHROW MORSE 161 West Eleventh Avenue
Fellow in Zoology and Entomology.
B. Sc., Ohio State University, 1903; M. A., *ibid.*, 1904.

CHANGES IN TITLES

1904-1905

SEPTIMUS SISSON,	Professor of Veterinary Medicine Professor of Comparative Anatomy
JOSEPH V. DENNEY,	Professor of Rhetoric and English Language Professor of English
ALLEN C. BARROWS,	Professor of English Literature Professor of English
CHARLES B. MORREY,	Associate Professor of Bacteriology Professor of Bacteriology
JOSEPH R. TAYLOR,	Associate Professor of English Literature Associate Professor of English
DAVID R. MAJOR,	Associate Professor of Education Professor of Education
JAMES E. HAGERTY,	Assistant Professor of Economics and Sociology Professor of Economics and Sociology
WILLIAM L. GRAVES,	Assistant Professor of Rhetoric and English Language Assistant Professor of English
GEORGE H. MCKNIGHT,	Assistant Professor of Rhetoric and English Language Assistant Professor of English
MERRITT F. MILLER,	Instructor in Agronomy Professor of Agronomy
HENRY DIETRICH BRUNING,	Instructor in Civil Engineering Assistant Professor of Civil Engineering
THOMAS K. LEWIS,	Instructor in Architecture and Drawing Assistant Professor of Architecture and Drawing
JOSEPH H. VOSKUEHLER,	Instructor in Architecture and Drawing Assistant Professor of Architecture and Drawing
MARY MALLOY,	Fellow in Rhetoric and English Language Fellow in English

CHANGES 1904-1905,

RESIGNED

Professor Thomas F. Hunt, Professor Christopher P. Linhart, Associate Professor Clara Maud Berryman, Associate Professor Theodore C. Smith, Associate Professor Cornelia P. Souther, Assistant Professor Thomas H. Dickinson, Assistant Professor Merritt F. Miller, Instructor Frank Ruhlen, Assistant Claude B. Gulttard, Assistant W. R. Judson, Assistant Otto E. Jennings, Assistant W. L. Davies, Assistant Roy S. King, Fellow Frank H. Meisse, Fellow John C. Cone.

APPOINTMENTS.

GILBERT H. STEWART.....	Professor of Law.
ARTHUR GILLETT M'CALL.....	Assistant Professor of Agronomy.
ROY S. KING.....	Assistant in Mechanical Engineering.
CYRUS ALAN MELICK.....	Assistant in Civil Engineering.
THURMAN WELFORD HOLLOWAY.....	Assistant in Mechanical Engineering.
H. A. GLEASON.....	Fellow in Botany.
MARY M'KINLEY.....	Fellow in Botany.
CLARENCE C. VOGT.....	Fellow in Chemistry.
JOHN SCOTT RIDDILE	Fellow in Electrical Engineering.
MIMA J. WEAVER.....	Fellow in English.
GERTRUDE S. JACKSON.....	Fellow in English.
FRANK M. SURFACE.....	Fellow in Zoology an Entomology.

Standing Committees of the General Faculty

Committee on Advanced Standing.

PROFESSOR ORTON, *Chairman*,
PROFESSOR BOWNOCKER,
PROFESSOR SMITH,
PROFESSOR PAGE,
PROFESSOR KAUFFMAN,
PROFESSOR SISSON,

Committee on Amusements and Receptions:

PROFESSOR SMITH, *Chairman*,
PROFESSOR COLE,
PROFESSOR CALDWELL,
PRESIDENT THOMPSON.

Appointment Committee:

PRESIDENT THOMPSON, *Chairman*,
PROFESSOR KNIGHT,
PROFESSOR SMITH,
PROFESSOR MCPHERSON,
PROFESSOR MAJOR,
PROFESSOR THOMAS,
PROFESSOR DENNEY.

Athletic Board:

PROFESSOR BLEILE (for three years),
PROFESSOR KAUFFMAN (for two years),
PROFESSOR THOMAS (for one year),

Committee on Time Schedule:

PRESIDENT THOMPSON, *Chairman*,
ASSISTANT PROFESSOR KUHN,
INSTRUCTOR LEWIS.

Committee on Commencement:

PROFESSOR PAGE, *Chairman*,
PROFESSOR MORREY,
ASSISTANT PROFESSOR TAYLOR.
PRESIDENT THOMPSON.

Debate and Oratory Council:

PROFESSOR DENNEY,
PROFESSOR KNIGHT,
PROFESSOR HAGERTY,
PROFESSOR SCOTT,
PROFESSOR ———.

Committee on Diplomas:

PROFESSOR BRADFORD.

CATALOGUE

High School Committee:

PRESIDENT THOMPSON, *Chairman*,
PROFESSOR DENNEY,
PROFESSOR N. W. LORD,
PROFESSOR KNIGHT,
PROFESSOR MAJOR,
PROFESSOR MCPHERSON,
PROFESSOR CALDWELL,
MR. W. W. BOYD, High School Visitor.

Library Council:

PRESIDENT THOMPSON, *Chairman*,
PROFESSOR PRICE,
PROFESSOR DENNEY,
PROFESSOR ORTON,
PROFESSOR _____,
PROFESSOR KAUFFMAN,
PROFESSOR WHITE.
MISS JONES, Librarian.

Committee on Student Publications:

PROFESSOR SMITH, *Chairman*,
PROFESSOR BARROWS,
PROFESSOR RHODES,

Committee on Rules:

PROFESSOR SIEBERT, *Chairman*,
PROFESSOR PRICE,
PROFESSOR DENNEY,
PROFESSOR ORTON,
PROFESSOR _____,
PROFESSOR KAUFFMAN,
PROFESSOR WHITE.

Lantern Board:

PROFESSOR DENNEY,
PROFESSOR COLE.

THE UNIVERSITY

OHIO STATE UNIVERSITY

LOCATION.

The University is situated within the corporate limits of the City of Columbus, two miles north of the Union Depot and about three miles from the State Capitol. The University grounds consist of three hundred and forty-five acres, bounded east and west by High street and the Olentangy river, respectively. The western portion, about 235 acres, is devoted to agricultural and horticultural purposes, and is under the management of the College of Agriculture and Domestic Science. The eastern portion is occupied by the principal University buildings, campus, athletic and drill grounds, a park-like meadow and a few acres of primitive forest.

The grounds are laid out with care, ornamented with trees, shrubs and flower beds; and are so managed as to illustrate the instruction in Botany, Horticulture, Forestry, Landscape Gardening and Floriculture.

The University may be reached by either the North High street or the Neil avenue electric cars. Those wishing to go to the principal buildings of the University, to the residences on the grounds or the athletic field, should take a High street car going north. Those wishing to visit the Emerson McMillin Observatory, the Veterinary Hospital, Townshend Hall, Horticultural Hall and the Dormitories, will find the Neil avenue cars more convenient.

HISTORY.

The land grant made by the United States under an act approved by President Lincoln, July 2, 1862, provided that there should be granted to each State an amount of public land equal to thirty thousand acres for each Senator and Representative to which the State was entitled by the apportionment of the census of 1860. The proceeds under this act were to constitute a perpetual fund the capital of which was to remain forever undiminished and the interest of the same was to be inviolably applied by each State which should take and claim the benefits of the act to the endowment, support and maintenance of at least one "college where the leading objects shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such a manner as the legislatures of the States may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Governor Tod, in November, 1862, brought the subject before the State Board of Agriculture and later to the attention of the Legislature. In January, 1864, Hon. Columbus Delano introduced a bill accepting the grant. This became a law February 9, 1864, and pledged the faith of the State to the performance of all the conditions and provisions contained therein. In 1866, an act introduced by Hon. J. T. Brooks, was passed, which provided for the establishment of the Ohio Agricultural and Mechanical College, but the provisions were not carried into effect, and a second act introduced by Hon. R. P. Cannon was passed in 1870 entitled, "An act to establish and maintain an Agricultural and Mechanical College in Ohio." Under the provisions of this act the institution was located in Columbus and the Board proceeded to the organization of the college and the election of a faculty of instruction, and the institution was opened for the reception of students on the seventeenth day of September, 1873.

In 1878 the legislature passed "An act to reorganize and change the name of the Ohio Agricultural and Mechanical College and to repeal certain acts therein mentioned." The act provided that the institution should be thereafter designated as "The Ohio State University." Up to this time but one

appropriation had been made by the State for the support of the institution. With the reorganization came the larger and broader view of the State's relation to public education, and since that time the Ohio State University has shared with other public educational institutions a more generous support by the State.

The governing body of the institution is a Board of Trustees, appointed by the Governor of the State and confirmed by the Senate, for terms of seven years, as provided in the law organizing the University. The original endowment has been supplemented, and the objects of the University promoted, by a permanent annual grant from the United States, under an act of 1890, by special appropriations of the General Assembly; and in 1891, by a permanent annual grant from the State, which grant was doubled by the legislature of 1896. In accordance with the spirit of the law under which it is organized, the University aims to furnish ample facilities for education in the liberal and industrial arts, the sciences and the languages, and for thorough technical and professional study of agriculture, engineering in its various departments, veterinary medicine, pharmacy and law. Through the aid which has been received from the United States and from the State it is enabled to offer its privileges, with a slight charge for incidental expenses, to all persons of either sex who are qualified for admission.

ORGANIZATION.

THE UNIVERSITY EMBRACES SIX COLLEGES.

The College of Agriculture and Domestic Science.
 The College of Arts, Philosophy and Science.
 The College of Engineering.
 The College of Law.
 The College of Pharmacy.
 The College of Veterinary Medicine.

Both graduate and undergraduate courses are included in all the Colleges of the University.

THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE:

The Four Years' Course in Agriculture.
 The Four Years' Course in Horticulture and Forestry.
 The Four Years' Course in Domestic Economy.
 The Course in Dairying.
 The Short Course in Agriculture.
 The Short Course in Domestic Economy.

THE COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE:

The Graduate School.
 The Undergraduate Department.

THE COLLEGE OF ENGINEERING

The Course in Architecture.
 The Course in Ceramics.
 The Course in Chemical Engineering.
 The Course in Civil Engineering.
 The Course in Electrical Engineering.
 The Course in Industrial Arts.
 The Course in Manual Training.
 The Course in Mechanical Engineering.
 The Course in Mining Engineering.
 The Short Course in Clay Working.
 The Short Course in Industrial Arts.
 The Short Course in Mining.

THE COLLEGE OF LAW:

The Graduate Course.
 The Three Years' Course.

THE COLLEGE OF PHARMACY:

The Four Years' Course in Pharmacy.
The Short Course in Pharmacy.

THE COLLEGE OF VETERINARY MEDICINE:

A Three Years' Course.

Each College is under the direction of its own Faculty, which has power to act in all matters pertaining to the work of the students in that College.

BUILDINGS.

The University has fifteen buildings devoted to instruction, one Boiler House, one Power House, two Dormitories, seven residences and some farm buildings. These buildings represent an investment for construction of about nine hundred thousand dollars. The equipment and apparatus amount to about three hundred thousand dollars. The land now occupied as a site with the farm is valued at one million five hundred thousand dollars. A new building for the Department of Physics is now in process of erection.

UNIVERSITY HALL contains the Executive offices, the office of the Secretary of the Trustees, the assembly room (seating twelve hundred persons), four halls for literary societies, the Y. M. C. A. and Y. W. C. A. room, the Young Woman's League room and class rooms and laboratories for the departments of Economics, English Literature, German, Greek, History, Latin, Mathematics, Pedagogy, Political Science, Philosophy, Physics, Rhetoric and English Language, and Romance Languages. An electric passenger elevator connects all floors.

MECHANICAL HALL contains a room fitted up with cases for the care of models, samples of materials, instruments of precision, etc.; a room for instruction in experimental engineering and mechanism and draughting; and the steam, hydraulic, gas and pneumatic engineering and testing laboratories.

BOTANICAL HALL has on the first floor the lecture room of the Department of Botany. There are also an office, a store room, a dark room, and a private laboratory for Physiological Botany. On the second floor is the botanical museum, the main laboratory and the assistant's laboratory. Connected with this building is a large greenhouse and propagating house.

ELECTRICAL HALL devotes the first floor to the dynamo room. The floor of this room is of asphalt, laid on a solid concrete foundation. On the second floor are a lecture and draughting room, a photometric room, a library room, and office, stock and locker rooms.

CHEMICAL HALL which was occupied by the departments of Chemistry, Mining and Metallurgy and Pharmacy, was destroyed by fire on February 19, 1904.

The funds have been provided to restore this building and a new chemical hall will soon be erected. Meantime the departments of chemistry and metallurgy are located in Townshend Hall, the department of Mining in Brown Hall, and the department of Pharmacy in the new Veterinary Laboratory Building.

ORTON HALL is designed for the permanent accommodation of the large geological collection of the University and for work and instruction in the department of Geology. A portion of it is occupied by the library and reading room. The building is two stories in height, with a high basement, is built of brick and faced with sandstone, and is fireproof throughout. At the right of the main entrance is the geological lecture room and professors' private room; at the left is the University library, reading room and librarian's private room. The central and rear portion is occupied by the geological and paleontological museums. The petrographical laboratory is located on the second floor. In the basement a room is used for work in geographical modeling, the finished models being afterward placed in the collection of such models in a room set apart for the purpose on the second floor. The basement accommodates also the museum of economic geology. A paleontological laboratory or working room is also provided on the second floor.

The greater part of the basement of Orton Hall is occupied as a laboratory by the department of Clay-working and Ceramics. This department is also accommodated with a large room on the first floor for recitation and exhibition purposes. In the rear of Orton Hall is a small brick structure used for the kilns of this department.

HAYES HALL is devoted to instruction in Industrial Arts, Drawing, Mechanical Engineering and Domestic Economy. On the first floor are

two offices, the rooms of the department of Domestic Economy and two lecture rooms, the machine shop, the forge shop and the foundry. On the second floor are the carpenter and pattern shops and six large lecture rooms, with private rooms annexed.

HORTICULTURAL HALL contains recitation rooms and indoor laboratories of the Department of Horticulture and Forestry. An extensive greenhouse is attached.

THE VETERINARY HOSPITAL contains on the first floor a veterinary museum and library, a dispensary and two private rooms for the persons in charge. On the second floor are a class room, a bacteriological laboratory and a microscopical laboratory. The rear extension contains an operating hall and a room provided with stalls, cages, etc., for the care of animals under treatment.

VETERINARY LABORATORY BUILDING—The Veterinary Laboratory, a building with two stories and a basement, is the headquarters of the College of Veterinary Medicine. The building is especially designed for instruction in veterinary medicine and is the largest and finest building of its kind in the Middle States. It is built of buff-colored pressed brick, trimmed with stone and with an imposing entrance of Bedford limestone. The windows are of plate glass; the roof of dark red tile. As the basement of this building is fourteen feet high and provided with large windows it constitutes practically the first floor. It is approached from the rear at the ground level. In planning the building every effort has been made to have its construction conform to the modern ideas of sanitation.

THE EMERSON McMILLIN OBSERVATORY is the gift of Mr. Emerson McMillin of New York. The first floor is divided by a hall and stairway into two parts. The east wing contains an office, library, clock room and a large, well-lighted room for the students, furnished with tables, where they reduce their observations and keep the records of their work. The west wing contains the transit house, the dome and photographic dark room. The transit house is a light frame structure, so designed as to be kept as free as possible from heat radiated by any heavy walls of masonry. The dome is a wooden frame-work, covered on the outside with canvas. The rest of the building is of pressed brick, the foundation and second story being "rock-faced." During the summer of 1902 the University added to the building a lecture room, comparator room, instrument shop, spectroscopic laboratory, a zenith telescope room and theodolite room.

TOWNSHEND HALL is devoted exclusively to the instruction given in the College of Agriculture.

On the left of the entrance is the office of the Department of Agriculture and a private office, a stenographer's room and fireproof vault. Connected with the office on the south is an assistant's room, opening into a laboratory for advanced students. At the extreme south end of this floor is a large laboratory for student work in soils and farm crops. Connected with this laboratory is a balance room, a store room and an instructor's laboratory. On the west side of the main corridor, and connected with the instructor's room, is a large class room opening into a preparation room with a dark room. This class room is fitted with all appliances for showing lantern slides of live stock, buildings, machinery, etc. On the same side of the corridor, and on the right of the stairway leading to the basement and second floor, are the class room and instructor's room for dairying. On the right of the main entrance is the department reading room. The north end of this floor is occupied by the museum with an attendant's room.

The north end of the high basement is occupied by the dairy department. This consists of a receiving room, a pasteurizing room, a store room, a refrigerator room, a lavatory, butter-making room, cheese-making room, two cheese-curing rooms, and an instructor's room.

In the south end of the basement is a live stock room about forty feet square. One-third of this room is occupied by raised seats, the remaining floor space being used for exhibiting and judging live stock. Connected with this is a room fitted with stalls for the temporary accommodation of live stock when needed for class exercises. The basement also contains soil storage room, bath room, toilet rooms, repair shop, locker rooms, bicycle room and janitor's room. A small detached building will furnish steam and power for the dairy department. Detached from the main building, but connected with the soil storage room by a tramway, is a glass house for the study of soils and the experimental growth of plants.

The north end of the second story contains a large student laboratory for the Department of Agricultural Chemistry, connected with an organic and analysis laboratory, a balance room, a store room and a private laboratory. The lecture room of this department is at the south end of this floor and will seat one hundred and sixty students on raised seats, with a preparation room adjoining. There is also on this floor a class room connecting with preparation room, store room and instructor's room, which is used (temporarily) by the department of Veterinary Medicine. There is also an extra class room, ladies' toilet and locker rooms and a hall for the use of the Townshend Society, designed to seat about two hundred persons.

BIOLOGICAL HALL is designed for the special accommodation of the Departments of Entomology, Zoology, Anatomy and Physiology, and is fully equipped with all the latest and best apparatus for this work. It consists of a basement, in which is done all the work of preparation of subjects for the lecture tables and for the special laboratory work for the advanced students; the first floor, on which are lecture rooms, general and special laboratories and private work rooms for the professor of Entomology and Zoology and his assistants; the second floor, similarly arranged for the work in Anatomy and Physiology; and a large wing, in which is the museum and a large lecture room. The building is fireproof throughout, and in design and general appearance is one of the most attractive on the campus.

THE GYMNASIUM AND ARMORY was first occupied in January, 1898. The drill hall and gymnasium floor is eighty feet wide by one hundred and fifty feet long. The roof is carried on curved steel arches, lighted from a clear story at the top. There is a running track around the entire room about twelve feet from the floor, back of which is a visitors' gallery seating about seven hundred persons. At the northwest corner of the floor is a stairway leading down to the men's locker and dressing room, while the young women go down a similar way at the southeast corner to their rooms. On the level with the main floor, near the main entrance at the south, is a large room for the use of the Commandant and his classes and rooms for the Director of the Gymnasium. Above the Commandant's room is the room for the officers of the University Cadet Corps.

The basement is very high and well lighted. On the young men's side are dressing and locker rooms, the bath room with shower and plunge baths, a bicycle room, a lecture room, the cannon room, the band room, and a large room.

PAGE HALL, occupied by the College of Law, is a handsome building of buff Bedford limestone and gray speckled brick, the main front being adorned with four Ionic columns about three feet in diameter and twenty-six feet high. The basement rooms are intended to be used as class rooms when the demands of the college require additional space. The first story is utilized for class and lecture rooms, seven in number, with seating accommodations for five hundred students, and for the offices of the dean, the secretary and the faculty.

Through the large central hallway a double staircase leads to the second floor, which provides two large reading rooms, lighted from above. Between the two reading rooms is a fireproof room for the book stacks, which are designed ultimately to give shelving space to 50,000 volumes.

A separate reading room for graduate students and a conversation room are provided on this floor.

Brown Hall is devoted to Civil Engineering and Architecture and Drawing. The offices of the dean and the secretary of the College of Engineering are also located there. The building is two stories high, with basement above grade line. It consists of a main structure with a frontage of 217 feet and two short wings in the rear. It has been designed and constructed with a view to adding a third wing and considerably extending the two present wings.

The Department of Civil Engineering occupies the eastern part of the building. Their space includes four offices, three commodious lecture rooms, three large drawing rooms, a room for special drawing work, a room for thesis work, charts, library, etc., a well equipped cement laboratory, an instrument room, and a room for camp storage and workshop purposes.

The Department of Architecture and Drawing occupies the western part of the building. They are provided with three offices, three lecture rooms, six drawing rooms, all of large size, two photographic work rooms, one large dark room, a blue print room, with electric light for printing and another for washing and drying prints, and an architectural laboratory.

The Department of Mining Engineering occupies temporary quarters in this building until the completion of the School of Mines building now authorized.

THE NORTH DORMITORY is situated at the northern limit of Neil avenue, and fronts Eleventh avenue. It is at the terminus of the Neil avenue electric car line. It is a plain structure of brick, and affords accommodation for sixty-four students.

THE SOUTH DORMITORY stands near Neil avenue within a few rods of the North Dormitory. It is also built of brick, and contains rooms for twenty students.

RESIDENCES. There are eight dwelling houses upon the University campus. Five of these are brick and two are frame structures. One is occupied by the President of the University, five by professors, and the eighth is the farm house.

LABORATORIES AND EQUIPMENT.

AGRICULTURE.

The equipment of this department may be divided along three general lines—The Plant, The Museum and the Illustrative Materials.

THE PLANT. This consists of a farm of about two hundred acres, a general farm barn, a horse barn and several small buildings. The farm lies along the Olentangy river, and includes both first and second bottom land. On this farm are grown general farm crops in the rotation deemed best suited to the circumstances of the department. At present a few experiments are conducted, the general idea being to conduct such experiments as will have the largest instructional value to the students who attend the College of Agriculture. The Ohio Agricultural Experiment Station continues to conduct here the elaborate fertilizer experiments with wheat, corn and oats, which it has been making on this farm during the past five years. Different species and varieties of farm crops are grown to some extent for the purpose of class illustration and instruction, and it is expected to enlarge this feature.

Specimens of the draft, coach and roadster type of horse are kept and used in the farm work. The department manages a milk dairy, having a herd of about forty cows, composed of pure bred and grade Jerseys and Shorthorns.

The general farm barn contains a well arranged stable for forty cows, with underground drainage and sewage cistern, a milk cooling room, a silo, a roof cellar, a workshop, with room for hay, grain and other foodstuffs.

THE MUSEUM. This contains a large number of samples of farm products in various forms and their by-products, such as soils, grains, grasses, wools, cotton, forage plants and foodstuffs. Milling and other processes are illustrated by samples of the various products of manufacture.

The Museum contains Auzoux models, samples of tools and a considerable miscellaneous collection. The collections are intended primarily for student use and not for display.

ILLUSTRATIVE MATERIALS. These consist of charts, pictures and lantern slides showing results of experiments, representative and noted specimens of live stock, farm machinery, fences, buildings, etc. The department has and uses constantly in the class room a Beseler double oxygen-ether stereopticon. The collection of several hundred lantern slides for this purpose is constantly receiving additions.

THE AGRICULTURAL LIBRARY. While not considered as belonging specifically to this department, there is in the general library a fairly good collection of books and periodicals devoted to agriculture, a large use of which is required of the student.

THE LABORATORY OF SOIL PHYSICS is located on the second floor of Horticultural Hall, and is supplied with apparatus for the mechanical analysis of soils and for testing their physical properties. (See also BUILDINGS—*Townshend Hall*.)

ARCHITECTURE AND DRAWING.

The architectural, mechanical drawing and photographic work of the Department occupies the west half of Brown Hall, consisting of two architectural drawing and designing rooms, four mechanical drafting rooms, three lecture rooms provided with projection lanterns, one photographic laboratory, one photographic darkroom with forty-three developing compartments and two blue-print rooms, one of which is equipped with an Elliott electric light frame.

The freehand drawing, pen drawing, painting and clay modeling work is located in Hayes Hall, consisting of one large studio for drawing, one large studio for oil and water color painting and one studio for clay modeling.

The equipment consists of: For architecture, drawing tables, models of ornamental and constructional forms, photographs, lantern slides, portfolios of plates and instruments for experimental work in heating and ventilating; for mechanical drawing, drawing tables, models and a well selected collection of shop drawing illustrating the best modern office practice; for photography, a well equipped dark room arranged for forty-three persons, a laboratory equipped with printing apparatus, toning table, mounting table, copying cameras, ten view cameras, long and short focal length lenses, shutters and an excellent outfit for photo-micrography; for freehand drawing and painting, easels and drawing tables, a collection of representative work, wooden models, plaster casts and material for still life; for clay modeling, modeling stands, casting table, moisture box, modeling tools and apparatus for making gelatine molds.

In addition to the above the library contains a good collection of books relating to the work of the department.

ASTRONOMY.

The equipment consists of a twelve-inch equatorial telescope, mounting by Messrs. Warner & Swasey, objective by Mr. Brashear, with a large and powerful spectroscope by Mr. Brashear. This instrument is adapted to use either one or two prisms or a grating, and is provided with a double set of objectives, one corrected for the visual and one for the photographic rays; a position micrometer with a seven-inch circle by Messrs. Warner & Swasey; a combined zenith telescope and transit instrument of three inches clear aperture by Mr. G. N. Saegmuller; a sidereal clock by Clemens Riefler, of Munich; a comparator by Carl Zeiss; a four-inch portable equatorial by Alvan Clark; a chronograph by Warner & Swasey; sextants, chronometers, meteorological instruments; a zenith telescope, theodolite with twelve-inch horizontal and vertical circles and two smaller theodolites by Houghton & Simms.

The equipment of the spectroscopic laboratory consists of a five-inch concave grating, with Rowland's form of mounting by Brashear, a large spectrometer, two comparators, one by Zeiss and one by Gartner, a heliostat by Gaertner, donated to the observatory by Mr. J. F. Stone, a 110-volt storage battery, gas engine, dynamo and large induction coil. In addition to the above, Mr. McMillin's gift provides for an excellent astronomical library.

BACTERIOLOGY.

The Department of Bacteriology occupies a portion of the new Veterinary Laboratory Building. There is a laboratory on the second floor accommodating about thirty students, another in the basement with places for fifteen men, a private laboratory and office, a room for experimental animals in the attic, one for inoculated animals in the basement, and two incubator rooms. These rooms are each equipped with the necessary incubators, hot air and steam sterilizers, autoclaves, microscopes, microtomes, etc., for instruction, with facilities for advanced and original work. The furnishings are of the latest and best type, so that not only elementary teaching but also research may be carried on under the most favorable circumstances.

BOTANY.

The general Botanical Laboratory occupies a part of the second floor of Botanical Hall. It is 23x33 feet, and is furnished with both movable and fixed tables. The latter are attached to the west and south walls near windows, suitably shaded. Water, gas and an evaporating hood are also provided. The laboratory is equipped with compound microscopes of the Baush and Lomb, the Leitz and other patterns; and accompanying each is a tray of tools and a case of reagents. There are more than fifty dissecting microscopes; also charts and several minor pieces of apparatus for experiments in vegetable physiology. Three smaller rooms are also provided as laboratories for special work, as well as a dark room for photography. Other facilities for the illustration of the courses in botany, and for practical training in the same, are: A general herbarium, including flowering plants, ferns, mosses, fungi and algae; a state herbarium, a collection of fruits and seeds, valuable timbers,

woods, grasses and various economic products of the vegetable kingdom; ornamental grounds and woodland, planted with a large variety of evergreen and deciduous trees and shrubs; and a greenhouse with a fair collection of native and exotic plants. (See also MUSEUM—*The Botanical Museum*; and BUILDINGS—*Botanical Hall*.)

CHEMISTRY.

The laboratories of the department accommodate six hundred students. Each laboratory is equipped with all the necessary conveniences—water, gas, electric lights, distilled water piped from a large still in the attic, steam ovens, automatic air blasts, suction pumps, etc. The department is liberally supplied with the best apparatus and materials for both lecture room and laboratory work. Each student has his own desk with drawers and locker. All supplies are procured from the chemical store room, which has always on hand a complete stock of all necessary materials.

CIVIL ENGINEERING.

The facilities provided for the illustration of the courses in civil engineering and for practical training are as follows: One high grade and three ordinary transits, four leveling instruments, solar compass, prismatic compass, improved telescope compass, Abney hand level, level and stadia rods, sight poles, chains, tapes; twenty-six improved drawing tables with 30x36 inch top; Schroeder's models in stereotomy of roof trusses; large set of models of wooden joints; collection of photographs of bridges, both when finished and in course of erection; collections of strain sheets and shop drawings of bridges; new improved cement testing machines and outfit for making all kinds of cement tests; stone mason tools for working models out of plaster blocks; magic lantern and slides; collections of samples of building materials; calculating machines; sets of drawing instruments; blue print room with outfit; sets of tracings of standard structures, from which each student may make a set of blue prints. The equipment is growing each year by the addition of materials purchased, presented or made by students of the department.

CLAY-WORKING AND CERAMICS.

The University was the first and for some time the only institution in the United States offering facilities for the study of clays, clay-working, and the chemical technology of the ceramic art. In the last two years other institutions have entered this field. The facilities of the department comprise: 1st. A convenient chemical laboratory, specially designed and equipped for the analysis and decomposition of silicates. Provision has been made for the use of hydrofluoric acid with safety, and the platinum ware has been made to order with this purpose in view. 2d. A complete mechanical outfit for the preparation of clays for pottery manufacture and the production of the ware itself, of any grade, from earthen wares to porcelain. The machinery is of the latest type and comprises all important varieties in use for grinding, tempering, washing, filtering and molding. 3d. A similar plant for the manufacture of brick, tiles, pipes and hollow goods. The machinery here is of full size and samples up to a ton in weight can be received and transformed into the finished article by any or all of the standard methods in commercial use. The power for this purpose is derived from a fine electric motor, driven from the University power plant. 4th. A kiln house, equipped with a kiln in which several hundred bricks, or an equivalent quantity of sewer pipe, stoneware or pottery can be burned. The fuel is intended to be coke, except in special cases where the fuel available for burning clay wares is to be made the subject of test. There is also provided a crucible melting furnace and a muffle furnace for testing glazes. A muffle kiln of large size for burning pottery, glazed ware and decorated wares has also been provided. 5th. A ceramic museum, containing a fine collection of American pottery and clay products of every class, is in process of installation. 6th. A library of the best literature on the subject, mainly German, but containing a few English and French works, and the trade periodicals. (See also BUILDINGS—*Orton Hall*.)

The facilities of the department for study in the field of cement and mortar materials comprise, in addition to the foregoing plant, much of which is especially well-suited to this purpose, the following special apparatus: 1st. An improved dry-ball mill, of chilled iron, for grinding the raw material together,

and for grinding the cement clinker. 2d. A small cupola, fired with coke and using air blast, for the vitrification of the refractory silicates used. 3d. A specially constructed flat-hearth furnace lined with magnesite and fired with oil and compressed air, for burning cement where the process needs to be interrupted frequently to determine how far vitrification has progressed. 4th. Access to the complete and well-appointed cement testing laboratory of the Department of Civil Engineering.

These facilities permit the department to offer exceptional opportunities to any who wish to specialize in this important field of manufacture. (See also BUILDINGS—*Orton Hall*.)

DOMESTIC ECONOMY.

The Department of Domestic Economy (for young women) will secure for the course all that experience and observation may suggest. At present it has a large kitchen, with dining room adjoining, each fitted with the latest and best appliances for the work undertaken. About a thousand dollars has been expended to make this department entirely practical, and to permit its instruction to be thorough and scientific.

ECONOMICS AND SOCIOLOGY.

The University, through the efforts and generosity of its friends, is possessed of a unique equipment for study purposes in these lines. This equipment comprises a large collection of railroad, municipal and school bonds; of stocks of all kinds; of letters of credit, drafts, foreign bills of exchange, bills of lading, checks, enclosures, statements, insurance policies, trust certificates, notes, mortgages and all the necessary forms of business paper; also collections of coins illustrative of various periods in our monetary history, foreign coins and scrip; also sets of maps and charts and a Kiepert-Commercial Globe 80 cent. in diameter. Ample facilities for statistical work are provided and a seminary room set apart for the use of laboratory material, documents, etc., is always open to advanced students. It is the policy of the department to make the statistical investigations and research work of advanced students contributory to the permanent equipment of the department, thus enriching the facilities from year to year with material of scientific and pedagogical value.

ELECTRICAL ENGINEERING.

The Electrical Laboratory affords very good facilities for practical experimental work with dynamo machinery and other electrical apparatus. The dynamo equipment consists of twenty-five machines of various makes and sizes, from 40 horse power down, aggregating over 200 horse power. These include direct and alternating current generators, polyphase motors, arc and incandescent lighting generators, railway and station motors and unipolar dynamo. The latter, with an alternating current generator and a 2-phase motor, were built by the students, it being the policy of the department to build as much of its apparatus as possible. There are also a number of transformers of different makes, including one for welding, built at the University. Arc lamps of different styles, a 10-kilowatt-hour storage battery, condensers and resistances, and magnetic testing apparatus also form part of the equipment. The list of measuring instruments is quite complete, and includes a standard Weston voltmeter and eleven other Weston volt and am-meters, also four Kelvin static voltmeters, five dynamo-meters, one watt-meter, three galvanometers and a dozen other am-meters and voltmeters of different makes. A telephone laboratory, with apparatus for comparative tests, a variety of transmitters and receivers, and lines running to another building, has been in use for two years. Photometry is given at present in the Physical Laboratory, where the equipment in this line is excellent. Power for running the dynamo laboratory is supplied by three induction motors from the University power plant. This latter is a model 2-phase plant, and the electrical part of it has been for the most part installed by the students of the department. The repair and maintenance of this plant is done by the students, who receive compensation for the time so spent.

GEOLOGY.

The University is able to present unusual advantages for the study of geology. By an act of the Legislature it has been put in possession of all the

collections made by the late Geological Survey, and these collections have been supplemented by valuable additions of fossils and minerals from various sources. The State collection embraces a very complete representation of every geological formation shown in Ohio. In its new and ample quarters the department offers exceptionally good opportunities for work in the lithological, petrographical and modeling laboratories. (See also *MUSEUMS the Geological Museum*; and *BUILDINGS—Orton Hall*.)

HORTICULTURE AND FORESTRY.

Among the facilities provided for the illustration of the courses in horticulture, and for practical training in the same, are: (1) a collection of horticultural tools for budding, grafting, pruning, etc.; (2) an orchard, containing well-selected varieties of the apple, pear, cherry, plum and quince; (3) a small vineyard, containing all the best varieties of the grape; (4) a garden of small fruits, containing all the best varieties of the strawberry, raspberry, blackberry, currant and gooseberry; (5) a vegetable garden with forcing houses, cold frames, experimental plats, conveniences for irrigation, etc.; (6) small nursery and forest tree plantations, with practice rows of budding, grafting, pruning and training; (7) ornamental grounds and woodland, planted with a large variety of evergreen and deciduous trees and shrubs; (8) a greenhouse with a fair collection of native and exotic plants; (9) a collection of preserved natural specimens and models of fruits, seeds, woods, etc.; (10) a laboratory fairly well equipped with balances, charts and other appliances for study and research. (See also *MUSEUMS—the Botanical Museum*; and *BUILDINGS—Horticultural Hall*.)

THE LAKE LABORATORY.

The University maintains a Lake Laboratory at Sandusky during the summer vacation, which is designed to provide opportunity for investigation of the biology of the lake region, and for giving certain courses of instruction in the Departments of Botany, Zoology and Entomology.

A new and commodious laboratory building, capable of accommodating at least one hundred students and investigators, was completed last summer and gives excellent accommodations for the work. It is well provided with tables, dark rooms, aquaria, water and gas. Microscopes and other apparatus are supplied from the University.

Boats, collecting apparatus, dredges, seines, etc., are well supplied, and special attention will be given to the methods of collecting and field work.

For further information write for special circular on Lake Laboratory.

MECHANICAL ENGINEERING.

The greater part of Mechanical Hall is devoted to laboratory purposes.

The South Laboratory is used for applied mechanics and for gas engineering. Here are located the machines for testing the strength and elasticity of engineering materials, and recording their physical properties automatically and autographically. Oils are tested as illuminants and as lubricants. Belts and pulleys are tested for their slippage, friction and horse-power transmitted. The gas engine plant has three engines, representing gas and gasoline, three methods of ignition, and fly ball and inertia governors. The air is supplied by a fan through a large meter. Temperatures and pressures of air, gas and water are measured. The fresh and burnt gases are analyzed and their heating values determined by a calorimeter. The power is measured at both the indicator and the brake. The laboratory machine shop and tool room are in this room.

The North Laboratory is used as a steam engineering and hydraulic laboratory. Four 35-horse-power engines give facilities for testing single and duplex condensing or non-condensing, simple or compound, throttling or automatic cut-off engines, using either a jet or a surface condensor. Pressure and vacuum gauges are calibrated. Indicator springs of five makers are tested, either cold or hot. Five kinds of calorimeters determine the moisture in steam before and after passing three different separators. Injectors are tested for lift, quantity, pressure and steam consumption. Steam pumps of six makes, ranging to 1,200 gallons per minute capacity; two centrifugal and a rotary pump, enable tests of pumps to be made and deliver water at pressures below 150

pounds to two stand-pipes, which in turn supply turbine and cascade and Pelton water wheels, and enable experiments to be made on the flow of water through orifices, pipes, valves, etc. Three cisterns, provided with a variety of weirs up to five feet wide, give practice in measuring flowing water. A Venturi meter and a Pilot tube are also used. Ericsson and Rider hot air engines are tested. A Rife hydraulic engine, a Humphreys ram, Gem and Eureka water motors, and a pulsometer, are included in the hydraulic apparatus, all of which are connected and prepared for complete tests.

A complete set of Westinghouse air-brake apparatus, a blower and a ventilating fan, enable experiments to be performed in the flow of air. They are supplemented by tests of the heating and ventilating plants in the buildings of the campus.

The Robinson experiment boiler gives unexcelled facilities both for laboratory exercises in the use, care and testing of steam boilers, and for the solution of original problems in this branch of engineering practice and research.

In addition to the apparatus and equipment of the power plant of the University the power house at Townshend Hall contains a horizontal, return tubular boiler, two steam engines and an ammonia refrigerating machine, making the facilities on the campus for testing quite complete. Machinery, apparatus and appliances are continually being presented, built or purchased, and the student is given an opportunity to test everything under practical conditions of operation. Besides the laboratory facilities, opportunities frequently arise to test machinery, engines or boilers in the city, and in these tests the students take part.

The buildings of the power plant were completed in 1896, and, with their contents, form a model plant. The boiler room is 38 by 100 feet, and is equipped with five 150 horse power boilers, with Babcock and Wilcox chain grates and Murphy automatic stoker. There are also coal and ash conveyors for the whole plant. At one end of the boiler room is the coal room and at the other the pit for the hot well, from which runs the tunnel (about three-fourths mile in length) to the buildings of the University, carrying heat, gas and water pipes and power, light and other wires.

Near the boiler house is the power house, 40 by 60 feet. The power generating plant consists of a 70 horse power McEwen compound engine, belted to a 60 kilowatt 2-phase Westinghouse alternator, and a 200 horse power Watertown compound, directly connected to a 125 kilowatt 2-phase generator. These occupy the main floor, together with a complete marble switchboard, with ammeters, voltmeters, wattmeters, static ground detectors, etc. A ten-ton traveling crane is available for handling the machinery in this room.

In the basement are condensers, which get their water from a large cooling reservoir at the side of the building. Here are also the transformers that convert the current to be used in the motors scattered over the campus, from 110 volts, at which it is generated, to 400 volts, at which it is transmitted.

There are installed on the campus over eighteen hundred incandescent lamps, twenty-four arc lamps and about 250 horse power in motors. The electric plant is, for the most part, of the Westinghouse system. The buildings are of brick. Nearly all of the University buildings are heated by steam from this plant. The total cost of the plant for generation of power, light and heat, and for its transmission to the buildings, has been something over \$100,000.

In order to facilitate experimental and research work in the direction of combustion of fuels under variable conditions as applied to steam generation, there was installed during the past year in the University boiler house, a most complete experiment boiler outfit. This equipment was furnished by Stillman W. Robinson, Emeritus Professor of Mechanical Engineering, who not only established the Department of Mechanical Engineering at Ohio State University and for many years was at its head, but was the originator of the first mechanical engineering department in this country connected with a state university, that at Champaign, Ill.

A Babcock & Wilcox boiler of 107 horse power, built for a working pressure of 200 pounds, with hand-fired furnace of the oven fire-brick type, is the principle of the system. The products of combustion, after passing the boiler, can be conducted direct to the open air by the chimney or otherwise, or into a Green's fuel economizer, where its 570 square feet of heating surface transfers heat to the feed water on its way to the boiler. The heat of the escaping gases

can still further be absorbed by an air heater having 1,330 square feet of heating surface. The heat thus taken up is transmitted to the air employed in the fuel combustion.

For promoting combustion, natural draft may be employed, or when greater intensity of draft is desired above that produced by the chimney, the latter can be cut out and a Sturtevant induced draft fan, driven by a direct connected engine, brought into action. In combination with either mechanical, induced or natural draft, forced draft produced by a belt-driven Sturtevant fan may be employed, and the air forced into the ash pit may be taken from the boiler room direct, or by a system of underground flues be compelled to pass through the air heater on its way to the fan.

Weighing and collection tanks, in conjunction with a steam pump, supply the boiler with known quantities of water which flows by the way of the economizer or to the boiler direct. In this feed water system is a Hayden's feed water purifier with live steam heater, which may be used in conjunction with the economizer.

Draft intensity and temperatures are determined at many points throughout the system; a Le Chatelier pyrometer being used for high, and mercurial pyrometers for low temperatures.

An Arndt's econometer indicates continuously the percentage of carbon dioxide in the escaping gases, while at the same time the Orsat's apparatus is used for giving absolute composition. The composition of the fuels employed and their calorific values are determined in the Department of Metallurgy.

The plant as a whole admits of many combinations, thereby being able to meet almost every condition in practice.

METALLURGY.

The metallurgical laboratory has all the appliances for the most modern methods of technical analysis as practiced in iron and steel laboratories, including gas analysis. A large room in the basement is fitted for gold and silver assaying, with improved muffle and melting furnaces, sampling apparatus and assay balances.

The lecture room in metallurgy has a projection lantern with a large collection of views of machines, mines and furnaces. There is a photographic room with blue-printing facilities, where students learn to make copies of drawings used in illustrating the lectures.

A collection of minerals and rocks, with a large set of rock sections, is provided for illustrating the mineralogy, as well as sets of blow-pipe apparatus for the students in determinative mineralogy. (See also BUILDINGS—*Chemical Hall*; and MUSEUMS—*The Geological Museum*.)

MINE ENGINEERING.

This department is equipped with all of the latest improved instruments and apparatus used in mine engineering, surveying and the study of mine ventilation. There is a collection of models of mine machinery and supplies, to which additions are being made, which are valuable as illustrations. The draughting room is large, well lighted and provided with a desk for each student, where he is personally taught the making of maps, the platting of actual surface and underground surveys, the making of drawings, tracings and blue-prints. He is also taught proper methods of keeping notes and all records necessary to an efficient engineer's office. The students are given practical experience by making actual surveys of coal mines and in working up their notes complete in all of the necessary details. The students are also taught how to make working drawings, plans, estimates and specifications of mining operations and equipment.

There is a large collection of views of machines, mines and mine equipment for use in the projection lantern in the lecture room. A photographic room with blue-printing facilities is used by the students in making copies of their own drawings and those illustrating the lectures.

PHARMACY.

The Pharmacy Department occupies the west wing, first floor of Chemical Hall.

The apartments consist of a large general laboratory, a smaller laboratory for advanced students, a dispensing room, reading room, lecture room, private laboratory and the office of the Dean.

The main laboratory will accommodate fifty students. Each desk is equipped with a very complete set of apparatus for individual use and special appliances are provided for general use. This laboratory is well provided with hoods, drying closets, steam pans, distilling apparatus, percolating racks, mills, and indeed, everything necessary to conduct the ordinary operations of pharmacy.

The laboratory for advanced work is similarly provided except that the individual sets of apparatus vary according to the line of work being followed, and the apparatus for general use (as, for example, the balances) is of the highest degree of accuracy. This laboratory will accommodate about twenty students.

The dispensing room is a completely equipped and well stocked drug store. The prescription desks are large enough to permit several students to work at one time and a full complement of apparatus for the work of the dispensing counter is provided.

The prescription files are very complete and cover as far as possible the entire range of prescription practice.

In the reading room are kept the books of reference belonging to the department and such other books as may be drawn from the general library of the University for use during special investigation. Here also are to be found the pharmaceutical journals.

The lecture room is well supplied with apparatus and appliances for illustration and experiment. About the walls are arranged cases in which are kept sets of specimens illustrating processes of manufacture, specimens of rare, costly and curious drugs, and of official preparations. Here also is a complete set of specimens of original crude drugs arranged by number only, for practice in the "recognition of drugs." (See also BUILDINGS—*Chemical Hall*.)

Until the new Chemical Hall shall be completed the Department of Pharmacy will occupy rooms in the new Veterinary Building.

PHYSICS.

The department has an excellent equipment of apparatus, to which additions are constantly being made. The apparatus includes a large collection of pieces for illustration of the general lecture room work, but is principally chosen for accurate measurement in the laboratory. A set of standards of length, capacity and mass, sent under the act of Congress supplying such sets to the several agricultural colleges, is in possession of the department. The pieces are copies of the United States standards made by the Coast Survey at Washington.

Among the principal pieces of apparatus are a dividing machine by Fauth & Co.; chronometers by Parkinson & Frodsham and by Negus, the latter a break-circuit; a chronograph by Fauth & Co.; a Hipp's chronoscope; cathetometers by Salleron and by the Geneva Society, the latter an exceptionally fine instrument; Regnault's apparatus for vapor tension, for expansion of gases and for specific heat; Melloni-Tyndall apparatus for radiant heat; standard thermometers by Paudin and others; Rutherford and Rowland, different gratings; Rowland's spectrum photographs; spectroscopes by Brashear, Browning, Apps and others; Duboscq's complete apparatus for projections in polarized light; lanterns for projections by the lime light and the arc light; a variety of sound apparatus from Koenig; portable and quadrant electrometers; Kelvin galvanometers of high and low resistance; Weidemann, Kohlrausch and other galvanometers; standard resistance coils, with Cavendish laboratory certificate; several sets of resistance coils and bridges; a Kew magnetometer; Kelvin standard balances; Weston ammeters and voltmeters; standards of self-induction; standard battery cells; photometric standards and photometers; X-ray apparatus, etc.

Under the laws of Ohio, the professor of physics is *ex officio* State Sealer of Weights and Measures, and all of the standard weights, measures and balances received from the United States government are in the rooms of the department.

PHYSIOLOGY.

The facilities provided for the study of anatomy, histology and physiology are excellent. The laboratory is supplied with skeletons, papier mache manikin and many models, including models of the eye, ear, larynx, etc. The apparatus of the department for work in physiology is of the best and most approved construction, and is adapted to the thorough performance of the fundamental physiological experiments. Myographs, spectroscopes, microscopes and the necessary chemical outfit are also provided. For work in histology the equipment includes twenty-four individual tables for student experiments, each table being supplied with a good microscope, microscopical accessories, microscopical re-agents; and for advanced work the needed apparatus for instruction in the various methods of hardening, staining, imbedding, section-cutting and injection. The laboratory also has excellent microtomes, imbedding baths and other essentials of an histological outfit. The equipment of the laboratory makes it possible to offer a large range of work for the choice of students in advanced courses. (See also BUILDINGS—*Biological Hall*.)

PSYCHOLOGY AND EDUCATION.

The psychological laboratory occupies three rooms on the fourth floor of University Hall, and is reasonably well equipped for work in physiological and experimental psychology and for research in related educational lines. For the study of motor processes and development the most improved form of ergograph with complete sets of myographic, chronographic, dynamometric and pneumatic recording appliances, has been provided. A complete outfit of apparatus for the study of sensation, memory and association makes it possible for students of education to acquire methods of exact observation of the various mental and motor processes involved in school work. Provision also has been made for work in comparative psychology.

SHOPWORK.

The shops occupy the north wing of Hayes Hall and afford excellent facilities for instruction in both the practical details and the underlying principles of carpentry, pattern-making, forging, moulding, foundry work and machine work.

The carpenter and pattern shop is equipped with twenty-five benches with complete sets of carpenter tools for each, and a large number of special tools for general use, twenty-three pattern-maker's turning lathes, with cupboards containing the necessary turning and pattern-making tools under each, an eight-foot pattern-maker's lathe with compound rest, a pony planer, a buzz planer, a circular rip and crosscut saw, a scroll saw, a 36-inch band saw, a trimmer and a power grindstone.

The forge shop is equipped with twenty stationary forges with anvils and tools for each, a heating forge, a portable hand forge, a foot-power hammer, a blacksmith's drill and a punch, shear and bar cutter. The blast for the forges is furnished through underground piping by a 45-inch Buffalo pressure blower, and the smoke is removed by a 55-inch Buffalo exhaust fan, overhead. Both of these fans are driven by a 15 horse power electric motor.

The foundry is equipped with a 24-inch Colliau cupola, the blast for which is furnished by a 30-inch Buffalo blower; two brass furnaces, one 16 inches in diameter and the other 20 inches in diameter; a core oven, benches for iron and brass moulding, core-making and cleaning of castings, a space for floor moulding 30 feet by 40 feet, besides all the necessary moulding tools, flasks, crucibles, ladles, tongs, etc.

The machine shop is driven by a 30 horse power electric motor from above, and is equipped with the following tools: Twenty-eight benches for vise work, with complete sets of tools; eight speed lathes, sixteen engine lathes, a Fox monitor turret lathe, two planers, two shapers, two milling machines, two upright drills, a sensitive drill, grinding machines for both plane and cylindrical surfaces, tool grinders, emery wheels, etc. This machinery is furnished with all the necessary tools, and the tool room is equipped with full sets of drills, taps, dies, milling cutters, standard plugs, gauges, threads, micrometers, and a great variety of special tools. (See also BUILDINGS—*Hayes Hall*.)

VETERINARY MEDICINE.

The Veterinary Hospital affords excellent facilities for the treatment and care of animal patients, and also gives the students the opportunity to become practically familiar with the diseases to which our domesticated animals are subject. It contains box stalls, stall for cold water applications, a large and well lighted operating hall and a special ward for dogs. The front part of the Hospital contains a lecture room, a museum of anatomical and pathological preparations, a drug dispensary and an office. In the museum are skeletons of the horse and ox, a complete manikin of the horse, papier-mache models of various anatomical parts, pathological specimens preserved in alcohol, etc.

In the library are choice collections of works in veterinary medicine and allied sciences and also copies of the leading veterinary periodicals.

The College is well equipped for surgical work. Instruments of the latest and most approved makes are kept in the instrument room for use in operations.

In the daily clinics not only are horses and dogs presented, but also the meat-producing animals from the barn, near the College.

The bacteriological laboratory in the biological department is supplied with apparatus of the most modern and improved construction, the microscopic appliances being adapted to the most accurate work in bacteriology. (See also BUILDINGS—*The Veterinary Laboratory—The Veterinary Hospital—Biological Hall.*)

ZOOLOGY AND ENTOMOLOGY.

Instruction in this department is largely by the laboratory method, with lectures and use of text or reference books, the effort being to lead the student to observe and think for himself. The various courses are intended to provide instruction in the elements of the science, familiarity with methods of study and investigation, and opportunity for special research, involving field, laboratory, museum and library work. The adjacent fields, wood, lake and river; the various well equipped laboratories, extensive collections and libraries furnish excellent opportunities for every phase of the study.

The department occupies the first and third floors of the fine new Biological Hall, providing two lecture rooms, one general and five special laboratories, museums, offices for professor and assistants, besides room for storage, workshops, aquaria, cold-storage, photography, etc. The laboratory equipment includes microscopes, microtomes, incubators, injectors, etc., for most approved methods of work in morphology, embryology and neurology. The collections include a fine series of skeletons, a number of large mammals, series of the birds of Ohio, of the birds of North America, of Ohio fishes, of mollusks and especially rich collection of insects particularly in Odonata, Hemiptera and Diptera. (See also THE MUSEUMS—*The Zoological Museum, Biological Hall.*)

The Lake Laboratory maintained at Sandusky and open during the summer vacation offers courses of instruction and exceptional opportunities for original investigation in a very interesting and delightful locality. (See Lake Laboratory.)

THE MUSEUMS.

THE GEOLOGICAL MUSEUM of the University has been collected and arranged with reference to instruction rather than to display. The basis of it is a large and comprehensive collection of the rocks, fossils and economic minerals of Ohio. The collection embraces the following named series:

(a) An excellent representation of the leading divisions of the geological scale of the State, so far as it can be illustrated by rock specimens. The specimens represent the leading phases of each formation, and in many cases carry the characteristic fossils of the horizons from which they are derived.

(b) A collection of the animal and vegetable fossils of the rocks of Ohio. This series includes a large majority of the described fossils of our formation, and in the number are many type specimens. While all the ages of our geological history are well represented, the collection of the Upper Silurian and Devonian animal fossils is particularly rich and complete. A remarkably fine series of coal plants is also included in the museum. The list of fossils has

been greatly extended in the number of species and individuals by the recent purchase of the collection of Mr. Henry Moores, of Columbus.

(c) The economic minerals of the state are also shown to excellent advantage in the museum. The coals, petroleum, iron ores, clay and building stones produced in Ohio are represented in large collections. Many of the specimens upon which chemical examinations or physical tests have been based in the work of the geological survey of the State are included here.

(d) Petrographical collections: These collections were selected with a view to their use in petrographical instruction, and embrace the Hawes collection, the Krantz collection and the Rosenbusch complete series of typical rock specimens from important centers abroad. These hand specimens are supplemented by two series of thin sections, including Voigt and Hochgesang's collections of typical rocks and of the petrographically important minerals.

In addition to the collections above described, the museum contains a great deal of valuable material in the line of general geology and mineralogy. Among other things it includes several valuable suites of ores and many fine mineral specimens.

There also belong to the museum a number of geological casts, models and maps. In this series are included a relief map of the State of Ohio, and also the models of the basins of the Atlantic ocean and Caribbean sea, prepared under the supervision of the United States Coast and Geodetic Survey.

The catalogue of the museum contains more than 10,000 entries; but as only one number is as a rule given to a fossil or a mineral species, the individual specimens make an aggregate list of many thousands in addition to the catalogue list, and probably double this list.

The skeleton of a mastodon, one of the extinct elephants of Ohio, has recently been presented to the museum by N. S. Conway, of Catawba, O., on whose farm it was found. It has been mounted by Prof. H. A. Ward, of Rochester, N. Y., and proves to be one of the largest in the country.

The museum also has a mounted skeleton of *Megalonyx Jeffersonii*, one of the great ground sloths. This specimen has the distinction of being the first and thus far the only mounted skeleton of this animal in the world. The bones were discovered by Abraham Drushell and others in a swamp in Berlin township, in Holmes county, Ohio, in 1890. They were mounted in Ward's Natural Science Establishment, Rochester, N. Y. The entire outlay involved in the purchase of the bones and in mounting them was borne by Mr. Emerson McMillin, of New York.

THE ZOOLOGICAL MUSEUM is located on the ground floor of the wing of Biological Hall. The foundations of a zoological museum have been laid and the work begun on a generous plan. Every effort is being made to secure and preserve excellent specimens in all groups of animals. Not only the adult animals are preserved but the preparatory stages as well, their work and architecture, in fact all that can illustrate the life-history and habits.

Among special features are the Wheaton collection of birds of Ohio, numbering about 1,000 skins; a collection of North American birds, about 1,500 skins, representing very fully the North American fauna; a number of fine specimens of larger animals, moose, hippopotamus, deer, tiger, peccary, lion, tapir, etc., most of which have been generously donated by Sells Brothers; a collection of about 3,500 molluscan shells; a fine series of Ohio fishes; numerous reptiles, amphibians, etc.

There is an excellent series of skeletons, crania and alcoholic material for courses in comparative anatomy.

The collection of insects is being rapidly enlarged and the purchase of the Kellicott collection of Odonata makes it especially rich in that order.

Professor Osborne's private collection of Hemiptera is deposited in the Department and available to students for comparison and study.

THE BOTANICAL MUSEUM occupies the second floor of Botanical Hall. It contains the general University herbariums, and the State herbarium, over 30,000 mounted sheets, also Professor Kellerman's private herbarium of over 20,000 specimens deposited for use in the Botanical department; a complete collection of the native woods of Ohio; a collection of the seeds and fruits of plants; a collection of native medicinal plants; a general collection of vegetable products, including seeds, textile fabrics, coloring substances, etc., illustrating economic or applied botany.

THE AGRICULTURAL MUSEUM. For a description of this museum, see BUILDINGS—Townshend Hall.

THE ANATOMICAL AND PATHOLOGICAL MUSEUM. For a description of this museum, see Laboratories and Equipment, Veterinary Medicine.

THE MUSEUM OF CLAY-WORKING AND CERAMICS is now in process of formation. Some excellent specimens of ceramic products have already been collected, and efforts are being made to increase the collection.

ARCHAEOLOGICAL COLLECTION. Page Hall now contains the second best archæologic exhibit in the Ohio Valley, the total number of specimens owned by the Ohio State University, the Ohio State Historical and Archæological Society and by private individuals, amounting to 46,200. Although the Museum is but three years old, it has shown a remarkable growth.

Field work has been carried on in various parts of the State during the summers of 1894, 1895 and 1896, and as a result the contents of more than eighty mounds, graves and village sites are now on exhibition. The chief exhibits, illustrating the life of ancient tribes are from Fort Ancient in Warren county, from the mound graves of the lower Scioto and from the Muskingum Valley. It is considered that in Ross county aboriginal culture reaches its highest development in the whole Ohio Valley. This fact is well attested by the presence of numerous copper objects, effigy pipes, fine ornaments and ceremonials, pottery, delicate work in polished stone and flint implements, etc.

The collection from the valley of Brush Creek and along the Ohio itself, and from the hill regions of Ohio, show a much lower grade of culture. Careful comparison of the work of man from these localities is exceedingly interesting.

There is an exhibit from Flint Ridge, illustrating the manufacture of arrow and spear heads. The Museum contains nearly 150 specimens of pottery from Missouri and Arkansas, many of which are effigies of animal, bird and human form.

The founders of the Archæologic Museum are arousing public interest in the preservation and study of Ohio antiquities; and, by means of exchanges, lectures and personal solicitation, the growth of the collection is considerable.

LIBRARIES.

THE UNIVERSITY LIBRARY.

The University Library, containing about fifty thousand volumes, is located in the east end of Orton Hall. The system of department libraries prevails to a limited extent, small collections of books specially needed in connection with laboratory and class room work being deposited in several departments.

During term time the Library is open six days in the week, legal holidays being excepted. From Monday until Friday the hours are from 7:30 a. m. until 9:30 p. m.; Saturday from 7:30 a. m. until 4 p. m.

The management of the Library is vested in a Library Council, which is composed of the President, the Librarian and the Deans of the six colleges.

STATE LIBRARIES.

Students are privileged in being near the two State Libraries.

The Ohio State Library numbers about 70,000 volumes and is a circulating one for all the citizens of Ohio. It occupies a room in the State House.

The State Law Library, also in the State House, is the largest and most complete law library in the State. It contains complete sets of the English, Scotch, Irish, Canadian, United States and State reports, statutes and digests. The important legal periodicals are on file.

CITY LIBRARIES.

The students of the University, as residents of Columbus, have access to the City Library and the Public School Library, under the usual regulations. The City Library numbers 28,000 volumes. It has specially pleasant reading and reference rooms. The Public School Library numbers 35,000 volumes, and is a well selected collection of books. Students will find both libraries valuable in supplementing the University Library.

SPECIAL LIBRARY IN ECONOMICS.

The University possesses a special library in Economics consisting of several hundred volumes and pamphlets. Over thirty financial, commercial and trade journals are received and filed regularly. The business men of Columbus have contributed over \$1,200 for the equipment of this commercial library.

SPECIAL LIBRARY IN ZOOLOGY AND ENTOMOLOGY.

The Department of Zoology and Entomology possesses a special library the nucleus of which was the scientific library of the late Prof. Kellicott which was generously donated to the Department. This has been increased by gifts of special papers by a number of the leading investigators of the country and will be enlarged as rapidly as possible. The private library of the professor is also accessible for reference.

AIDS TO MORAL AND RELIGIOUS CULTURE.

One of the most commendable organizations in the University is a branch of the International Young Men's Christian Association, organized in 1883. This association is directly affiliated with the work for young men directed by the college department of the State Y. M. C. A. work. Services are held weekly and voluntary classes for Bible study are successfully organized. The local association has a secretary who devotes his entire time to work among the young men. The management has rented a house at 136 West Tenth avenue as headquarters for the Association. It is hoped that in the near future a permanent home for the Association may be provided.

An equally commendable organization is the Y. W. C. A., affiliated with the State organization. Religious meetings are held regularly at noon on Tuesdays. Occasionally meetings for social purposes are held as provided for by the organization. Both of these organizations are worthy of public consideration.

New students are invited to write to the address below for a hand book of information concerning the University or for information concerning rooms, boarding or employment. Address C. C. Hatfield, Y. M. C. A. Secretary, 136 West Tenth avenue, Columbus, Ohio.

THE CONVOCATION.

At the opening of the year in September, 1900, the daily chapel exercises were abandoned. As a substitute for the short daily exercises an entire hour is now devoted to a convocation at which the president presides. In addition to devotional exercises an address is delivered upon some suitable topic. During this hour the libraries and laboratories are closed and no other University exercises occur. It is expected that the Faculty and students will attend. The hour is definitely fixed at ten o'clock on Wednesday of each week. The public is always welcome at the Convocation.

LITERARY AND OTHER SOCIETIES.

The Alcyone Literary Society, open to young men, was founded in 1874; the Horton Literary Society, open to young men, was founded in 1875; the Athenæan Literary Society, open to young men, was founded in the winter of 1896-'97. The Browning Literary Society, founded in 1883, and the Philomathean Literary Society, founded in 1894, are open to young women. These societies have commodious and well furnished apartments in University Hall. They meet weekly, and their work, offering to the student a very desirable training in composition, public speaking, and parliamentary order, is a valuable adjunct to collegiate education.

The Townshend Literary Society was established in 1883 as a technical society under the name of the Kirtland Agricultural Society. In 1894, the name Townshend was substituted. In 1898, the Society changed its constitution so as to admit any student of the University and thus became a literary rather than a technical society. It meets weekly in its commodious and well arranged society room in Townshend Hall.

The Biological Club is an organization of professors and students for mutual assistance and improvement in the line of natural science. Its meetings are regularly held every two weeks, at which papers are read, notes of observation and research presented, and current biological literature discussed.

The Chemical Association, composed of the more advanced students and instructors in the Department of Chemistry and Pharmacy, has for its object the discussion of such subjects as are of importance to students of chemistry, special stress being placed on recent discoveries. The meetings are held semi-monthly and are of great interest. Both professors and students contribute to each program.

The Political Science Club is an organization of instructors and students in political science and history for the consideration of questions in those fields. At the regular bi-weekly meetings papers are read, researches reported and current questions and publications in political science considered and discussed.

The Engineering Society is a similar organization of students and instructors, holding meetings bi-weekly, for the consideration of questions in the various branches of engineering.

The Organic Evolution Club was organized in the winter of 1896-97 by those students and members of the Faculty especially interested in the study of Evolution. The Zoological Department has a similar club known as the Journal Club.

The O. S. U. Dramatic Club was organized in 1893. Its object is to present each year to the University world one of the standard legitimate dramas. Its membership is confined to University circles.

The musical organizations of the University are: The O. S. U. Glee Club, the O. S. U. Mandolin and Guitar Club, the O. S. U. Banjo Club, the O. S. U. Orchestra, the O. S. U. Male Quartet and the University Cadet Band.

The Ornithological Club encourages observation and research in the study of birds and their habits, especially of our native species. The Wheaton collections in the possession of the University form a basis of study. The programs consist of papers and discussions and reports of observation and personal work. Anyone interested in birds is eligible to membership and visitors are always welcome. The club meets on the second and fourth Monday evenings of each month.

The O. S. U. Sketch Club has for its purpose the promotion of art interests among the students and ex-students. Any one who is or has been connected with the University in any capacity is eligible to membership. The members meet once a week and sketch from the draped human figure. Twice a month the members present sketches illustrating some word, etc., previously selected. All work is criticised by members of the club for mutual benefit.

The English Club, composed of the instructors and advanced students of the English departments, holds bi-weekly meetings at which new books in current literature are discussed and papers on literary topics are presented.

The William F. Hunter Society, in the College of Law, meets for moot-court practice and quiz-work every two weeks.

"Der Deutsche Verein," for students in the Department of Germanic Languages and Literatures, meets every two weeks.

MILITARY SCIENCE AND PRACTICE.

Under the law of Congress establishing the University, it is required that instruction shall be given in military science and tactics. In accordance with this provision an officer of the regular army has been detailed to take charge of the Department of Military Science and Tactics; and the Trustees have directed that all male students, except those in the College of Law, and such others as may be specially excused for physical disability or for having reached the age limit of twenty-five years, shall render two years of cadet service. Special students are required to take the cadet service. From the opening of the year until Thanksgiving recess cadet service is required four times a week; from Thanksgiving until Spring recess cadet service is required twice each week and gymnasium practice twice; from the Spring recess until the first of June cadet service is required four times each week. A uniform has been prescribed with which each member is required to provide

himself; and fifty minutes a day are devoted to drill, except on those days when instruction in tactics and art of war is given.

The course of instruction is both practical and theoretical. It is given by means of a systematic drill, supplemented by lectures and recitations, and is so arranged as to occupy five hours per week throughout the year. For purposes of drill, all students enrolled in the department are organized in a battalion, the officers of which are selected from those students who have shown special proficiency in their university work and the work of the department. Commissioned officers and non-commissioned officers receive certificates of satisfactory service, issued by the University. A cadet band has been organized in connection with this department, and is supplied with instruments belonging to the University and to the cadets.

The practical course in infantry embraces all the movements prescribed by the drill regulations of the U. S. Army applicable to battalion. Instruction in artillery embraces such portions of the United States drill regulations as pertain to the formation of detachments, manual of the piece, mechanical maneuvers and aiming drill. Instruction also includes duties of sentinels, the various ceremonies performed by troops, and military signaling. The theoretical instruction includes a systematic and progressive course in drill regulations of the U. S. Army, the organization and administration of the U. S. Army and the elementary principles governing in the art of war.

Competitive drills are held yearly for two medals; one, the first prize, of gold, presented to the University by the M. C. Lilley Co., of Columbus, Ohio; the other, the second prize, of silver, presented by Lieut. Wilson, when commandant. These medals remain the property of the University, the winner wearing them until the next competition. The "President's Prize" consists of an officer's sword, given to the captain of the company having the best record for attendance for the year.

The equipments of the department consist of three hundred Springfield cadet rifles and sets of infantry equipment, twenty officers' swords and belts, the necessary equipment for instruction in signaling, and a few instruments for the band.

The U. S. Ordnance Department furnishes an annual allowance of one thousand rounds of ball and one thousand rounds of blank cartridges for cadet rifles.

PHYSICAL EDUCATION.

The physical education is given by the director in charge, assisted by Miss Martin, who has charge of the work for young women. The large drill hall is used by the women in the forenoon and by the men in the afternoon.

The exercising floor, 80 x 150 feet, is thoroughly equipped with the best apparatus in duplicate. The running track is fourteen laps to the mile, with graded elevations at the curves to meet the requirements of the different rates of speed. The track is laid with felt an inch in thickness, three and a half feet wide and covered with rubber coated canvas.

The work is required for the first and second year students. The course consists of theoretical and practical work in the gymnasium, and includes calisthenics, light and heavy gymnastics, physiology of exercise, physical examinations and measurements. It is intended to give the student such a training in the methods of Physical Education that he may have a comprehensive knowledge of the subject.

A thorough physical examination of each student is made at the opening of the year, and the measurements are outlined on charts, so as to show the part below the normal development, for which special exercises suited to the health and physical condition of each individual will be suggested. These charts are constructed from the accumulated data of several thousand measurements of college students. Experience demonstrates that the body, as well as the mind, is susceptible of right and wrong development. Every part of the body can be strengthened and increased and the relation of one part to another can also be changed so as to correct imperfections.

Class leaders who act as floor aids are selected from among those who show a proficiency in the work. These students are given a certificate of their appointments as Aids, and the letter A in scarlet, which they are entitled to wear on their gymnasium suits.

It is the aim of the department to secure health, vigor and such harmonious development of the body as will fit it to resist disease and prepare it for efficient service, both now and later in life.

The gymnasium is free to all students, but those desiring a locker will be charged a fee of one dollar a term.

OHIO FORESTRY BUREAU.

This Bureau has been established and located at the University by the Legislature for the purpose of inquiring into the best means of preserving and utilizing the forests of the State.

PRIZES.

Through the generosity of Hon. William J. Bryan an annual prize of fifteen dollars is offered for the best essay on the principles underlying the form of government of the United States. Competition for this prize is open to all students of the University.

The Edward Thompson Company offer annually to the student writing the best essay on a legal theme selected by the Faculty of the College of Law, the second edition of the English and American Encyclopedia of Law, which includes about thirty volumes.

Other prizes are offered in special departments, for which see department circulars or the heads of the departments.

FEEES AND EXPENSES.

GENERAL CHARGES.

All term dues must be paid at the opening of each term as a condition of admission to classes.

INCIDENTAL FEE.—A charge of six dollars a term, eighteen dollars a year, is made against all students, under the head of incidental expense. In the case of former students if this fee is not paid until the second day of the term one dollar will be added, and for each succeeding day of delinquency fifty cents will be added.

TUITION.—Tuition is free for all students except in the College of Law. The fees of the College of Law are \$30 per semester, including the usual incidental fee.

RETURN OF FEES.

The rules of the Trustees provide for the return of fees only in cases of prolonged illness or of unforeseen calamity.

LABORATORY FEES.

Students in the laboratories and shops are required to pay fees to cover, in part, the cost of the material consumed, and the deterioration of the expensive instruments used by them. First year students are also required to make a deposit of five dollars at the beginning of each term at the Chemical Store Room to cover the cost of laboratory supplies.

In the laboratories of the Department of Chemistry and Agricultural Chemistry, each student is required at the beginning of each term to pay a fixed charge of one dollar and fifty cents for gas and water. First year students are also required to make a deposit of five dollars at the beginning of each term at the Chemical Store Room to cover the cost of laboratory supplies. He is also required to buy his own supplies, as he needs them, at the general store room in Chemical Hall, where laboratory supplies are sold to students at first cost to the University.

The fees charged per term in the laboratories mentioned below are as follows:

Agriculture, 6, 42.....	\$10 00
Agriculture, 25, 22.....	5 00
Agriculture, 33.....	2 00
Agriculture, 18.....	1 00
Anatomy and Physiology, 4, 9, 11.....	5 00
Bacteriology, 1, 4, 4a, 5, 6.....	1 00

Botany, 3, 4, 6, 7, 8, 11, 12, 13, 16, 17, 18, 19, 21, 22, 23.....	2 00
Botany, 24, 25, 27, 29.....	2 00
Ceramics, 1, 2, 3, 7.....	1 50
Ceramics, 9, 10, 11, 18.....	5 00
Chemistry, 1.....	1 00
Chemistry, 2, 3, 7, 8, 9, 12, 12a, 13, 15, 17, 20, 27, 29, 30b, 32, 33, 34.....	1 50
Domestic Science, 1, 2, 3, 4, 11, 12, 13.....	5 00
Domestic Science, 5, 6, 7, 8, 9.....	1 00
Drawing, 7.....	2 00
Elec. Engineering, 9, 11, 4 hrs. or more.....	7 00
Elec. Engineering, 7, 3 hrs. or less.....	5 00
Law when elected 5 hours or less, per semester.....	7 50
Metallurgy, 3, 5, 6.....	1 50
Mechanical Engineering, 12, 14, 15, 17, 24, 25, 27, 28, 29, 30, 35, 36.....	5 00
Pharmacy, 7, 8, 9, 10, 11, 15, 17, 18.....	1 50
Physics, 5, 6, 7, 9, 12, 13, 15, 3 hrs., \$5.00; over 3 hrs.....	7 00
Shopwork, 4 hrs. or less.....	5 00
Shopwork, 5 hrs. or more.....	7 00
Zoology and Entomology, 2, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 2 hrs., \$2.00; 3 hrs., \$3.00; over 3 hrs.....	5 00
Zoology and Entomology, 1, 3, 4, 7.....	1 00

LOCKER FEE.

A fee of one dollar a term is required from those who make use of a locker in the gymnasium.

CADET UNIFORM.

The uniform with which the members of the battalion are required to provide themselves costs (without overcoat) about fourteen dollars. It is quiet in pattern, and is designed to be worn in place of civilian dress.

GRADUATION FEE.

A fee of five dollars, to cover expense of graduation and diploma is required of each person receiving one of the ordinary degrees from the University, and this fee must be paid before the degree is conferred. A like fee of ten dollars is charged to each person receiving one of the higher graduate degrees.

FEES FOR THE COLLEGE OF LAW.

INCIDENTAL FEE.—An incidental fee of fifteen dollars per year is charged to regular undergraduate students.

Upon payment of the incidental fee, law students will be admitted to all the privileges of all the other Colleges of the University, upon the same terms as to admission, discipline and character of studies selected as other students in the University.

TUITION FEE.—In addition to the incidental fee named above, a tuition fee of twenty-two dollars and fifty cents per semester is charged to regular undergraduate students.

GRADUATE FEE.—A graduate fee of fifteen dollars per semester, payable in advance, is charged to all who take the full graduate work.

DIPLOMA FEE.—A fee of five dollars is charged to all who receive the diploma or certificate, and a fee of ten dollars is charged to those taking the degree of Master of Laws. These fees must be paid before the degrees are conferred or certificate delivered.

Special students are required to arrange their fees satisfactorily with the Dean or Secretary before being admitted.

AUDITOR'S FEE.

On presentation to the Bursar of the written consent of the head of a department, and on payment to the Bursar of an auditor's fee of one dollar, any person engaged in teaching is permitted to attend, in that department, any class or course (not to exceed three hours a week for one-half year) which is announced to be especially for teachers or those intending to teach.

ROOMS AND BOARD.

There are two dormitories on the University grounds for the use of students. Each occupant is charged by the University a rent of a dollar and a half a term.

The South Dormitory affords unfurnished rooms to such students as desire to board themselves, and thus to reduce their expenses to a minimum. The expense of living in this way is about two dollars per week. Applications for rooms should be made to the President of the University.

The North Dormitory will accommodate more than sixty students. Board, furnished rooms, fuel, light and washing are, at present prices, supplied for about three dollars and twenty-five cents a week. Students will be admitted on special recommendation to the President of the University.

Boarding clubs are also formed in the neighborhood of the University. Furnished rooms are rented at seventy-five cents to one dollar a week for each student, and the cost of table board is two dollars to three dollars a week.

Board with furnished rooms can be obtained in private families, within convenient distances of the University, at rates varying from three and a half dollars to five dollars a week. The ruling rate may be taken as four dollars.

ESTIMATE OF EXPENSES.

The expenses of a student in the University for a year may be estimated as follows, excluding clothing (except uniform) and traveling expenses:

	Low	Average	High
Incidental fees	\$18 00	\$18 00	\$18 00
Laboratory fees	15 00	20 00	54 00
Books and stationery	15 00	25 00	40 00
Room	4 50	37 00	75 00
Furniture	10 00	.....	.....
Board	70 00	110 00	150 00
Uniform	14 00	14 00	14 00
	<hr/> \$146 50	<hr/> \$224 00	<hr/> \$351 00

FREE SCHOLARSHIPS.

A free scholarship good for two years is granted to one student annually from each county in Ohio. If in any county there is no applicant for the free scholarship in the College of Agriculture and Domestic Science, then a free scholarship, good for two years in the College of Veterinary Medicine, may be granted. Each scholarship is valid two years from its grantal and covers the incidental fee, but the person appointed to receive its benefits is subject to all the conditions prescribed for admission to the course. Students taking laboratory work are required to make a deposit to cover materials broken or used up, the same as other students. The free scholarship can not be used in special winter term course in dairying. The appointments are made by the County Boards of Agriculture, and are not transferable by the appointees. To learn whether the scholarship of a given county for the current year has been granted, inquiry should be addressed to the Secretary or President of the County Agricultural Society.

For further information concerning these scholarships, inquiries should be addressed to the Dean of the College of Agriculture and Domestic Science.

FELLOWSHIPS.

To encourage graduates of this University, and of other similar and approved institutions in this State, to continue their studies and to undertake advanced work leading to the higher degrees, the University authorities have established fellowship in several departments. These demand about one-half of the time of the fellow for laboratory or other similar assistance—as far as possible along the line of his graduate study. The remainder of his time is given to graduate work. The fellowships pay from \$250 to \$300 for the University year. At present there are three such fellowships in Rhetoric, two in Botany and in Chemistry, and one each in Economics, and Zoology, and a few others in the technical and professional colleges.

The Stillman W. Robinson Fellowship in Engineering, recently endowed by Emeritus Professor Robinson for the encouragement of graduate research work in engineering, provides three hundred dollars (300) annually, and is open to graduates in Mechanical, Civil and Electrical Engineering.

Any student to whom this fellowship is awarded must devote his entire time to the work, which shall amount to at least sixteen hours per week, of which at least eight shall be in the line of original research or investigation.

This fellowship will be awarded on the Friday preceding Commencement Day. All applications must be filed with the committee on or before the first of June of the same year, and must include a general outline or the course of study and research proposed. This must show a definite object to be attained. The application may be for one or two years, preference being given to candidates electing the two year course.

SELF-SUPPORT.

There is a large amount of work upon the University farm which is assigned to students, preference being given to those who are studying Agriculture. *But the University cannot promise work to all applicants.* Many students find work in private families, in offices, and in various occupations, by means of which they defray a portion of their expenses. A person of ability and energy, who is master of a trade, or who can do good work of any kind, can generally find employment, but prospective students are cautioned against depending wholly upon such uncertain sources of income.

Students should distinctly understand that where they attempt entire or partial self-support they should lengthen the term of study.

As an accommodation the executive office co-operates as far as possible in this matter. The Y. M. C. A. offers its services in helping young men to secure employment. Very much depends, however, on the individual's power of initiative. Students should not come to the University expecting others to find places for them. They should report to the executive office from time to time as to their needs and their work. This will enable the authorities to be more helpful than otherwise would be possible.

RULES AND REGULATIONS.

REGISTRATION.

All students are required to register and pay their term fees on or before the first day of each term, between the hours of 8 a. m. and 12 m., or between 1 and 4 p. m., central standard time.

Former students who fail to register as above will be charged one dollar in addition to the usual incidental fee, for the first day of delinquency, and fifty cents additional for each subsequent day.

No candidate for graduation, except in the College of Arts, will be permitted to register for the second term of his graduating year, except upon presentation to the bursar, of the President's certificate that his thesis subject has been announced and approved.

ASSIGNMENT OF WORK.

Rule 89. The assignment of work shall be made and recorded for each student, as shall be determined by the several faculties; but at the beginning of each term or semester, each student's card shall be signed by the Secretary of his College before presentation to the bursar.

AMOUNT OF WORK.

No student is permitted to take less than fifteen credit hours a week of any sort of work, except by special permission, and no student will be permitted to take more than the regular work of the class to which he belongs, who has not passed all his work for the preceding term.

CREDIT HOUR.

A credit hour means one hour class room work in lecture, recitation or quiz, or "two consecutive hours of practical or experimental work in

any department shall be regarded as the equivalent of one hour of class-room exercise; but when no outside work is required in addition to the laboratory work, then three hours of laboratory work may be required as equivalent to one credit hour; and in general not more than three hours of the student's time, including class hours, shall be required for each credit hour."

ELECTIVE STUDIES.

All elections of work in continuous studies, when once made, are understood to be made for the entire collegiate year.

The right is reserved to each professor to withdraw the offer of any elective study when it is not chosen by at least four persons.

REMOVAL OF ENTRANCE CONDITIONS.

Rule 111. Students shall be regarded as strictly on trial until they have removed all deficiencies and conditions in entrance requirements.

Rule 112. Students who have any entrance conditions outstanding at the beginning of the third year of residence at the University will not be allowed to register until such conditions have been removed.

All entrance conditions must be removed by examination by the University officers. Certificates will not be received for entrance conditions after matriculation.

EXAMINATIONS AND STANDING.

At the close of any term a student failing to pass in two-thirds of his work will be considered on *probation* for the next three terms; and a second similar failure incurred while thus on "probation" will forfeit his connection with the University.

Rule 116. The standing of students in each study shall be reported at the end of each term or semester, as "merit," "passed," "conditioned," or "failed." This standing shall be determined by the head of each department by such means and methods as he may choose, but no student shall be reported "failed" without having had the opportunity of a written examination.

Rule 117. The standings "merit" and "passed" indicate that the student has full credit for the term's or semester's work in the study in which this standing is obtained.

Rule 118. The report "credit" (K) shall be used only for work not done in regular class at the University.

Rule 119. The standing "conditioned" indicates that credit for the term's or semester's work in the study in which the condition was incurred is withheld. The student shall be given an opportunity to obtain credit by a special re-examination; or if the study be a continuous one, the instructor in charge may, at his discretion, excuse the student from re-examination and may allow him to obtain credit by pursuing the study successfully during the following term or semester. If the student thus excused from re-examination does not pass upon the work of the second term or semester, he shall be reported as "failed" in the work of both terms or semesters. Any condition that is not removed within one year from the beginning of the term or semester in which it was incurred shall lapse into a "failure."

Rule 120. The standing "failed" indicates that the student has obtained no credit whatever for the term's or semester's work in which the mark is given. The student must, at the first opportunity, repeat in class the study in which he has failed. But a student who has failed in an elective study may be excused from repeating such study by the Executive Committee of his college. In case of failure in any continuous study the work of the term or semester in which the failure is incurred must be repeated in class before any subsequent term's or semester's work in that study can be commenced. Unexcused absence from any regular examination is construed as a failure therein.

Rule 121. Any student who fails at the end of any term or semester to secure full credit for two-thirds of his work shall be put on probation for the following term or semester with restricted work, and if similarly delinquent in his studies at any time within the next ten academic months, shall thereby cease to be a member of the University.

Rule 122. If for any cause the preparation, progress or success of any student in the work assigned him be found unsatisfactory, the President may remove him from a class or dismiss him from the University.

TERMS AND VACATIONS.

The first term of the University year begins on the Tuesday following the sixteenth day of September and closes on the Wednesday following the 17th day of June. The first term closes on the Wednesday preceding Christmas; the second term begins on the Tuesday following the first day of January and closes on the Friday preceding the first Monday in April; the third term begins on the Wednesday following the close of the second term. The second semester begins on Monday of the eighteenth week preceding commencement week; and the first semester closes on the Friday preceding the opening of the second semester. The regular college exercises are suspended from 4 o'clock p. m. of the Wednesday preceding Christmas until 8 o'clock a. m. of the Tuesday following the first day of January; on Thanksgiving and the day following; on University day, which is the 22d day of February; from 4 o'clock p. m. of the Friday preceding the first Monday in April; until 8 o'clock a. m. of the Wednesday following the first Monday in April; and on Memorial day.

STUDENT'S LOCAL ADDRESS.

Rule 1. Each student shall at the beginning of the year give, in writing, his or her local address to the President, and shall promptly report all subsequent changes of address.

SMOKING PROHIBITED.

Rule 53. Smoking is prohibited in the halls, basement and lecture rooms of the University buildings.

ROOM REGULATIONS.

Rule 56. The rooms of University student organizations which are located in the University buildings shall not be used for the purposes other than the usual exercises of such organization without the previously obtained consent of the general faculty.

Rule 57. No arrangements or announcements shall be made by students for any public gathering or exercises in the University buildings without the previously obtained consent of the President.

EXCUSES FOR ABSENCE.

Rule 66. All absences of individual students from the city, for any purpose, involving absence from college exercises, must be accounted for to the President; and in all possible cases permission must be previously obtained.

Excuses will not be granted for absences of more than two weeks' standing, unless the absence has been continuous.

THESIS.

As a requisite for graduation, each candidate, except in the College of Arts and Veterinary Medicine, must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of the degree sought. The subject must be filed with the President of the University (dependent upon the approval of the head of the department), on the official blank provided for the purpose, not later than December 15 of the University year in which the degree is sought. The completed thesis must be submitted to the head of the department concerned not later than the second Saturday before Commencement Day.

The accepted thesis, on standard paper, Buckeye bond, 8½x11 inches, medium weight, typewritten or printed, neatly bound in black cloth, gilt-lettered on first cover with the thesis title, name of author, degree sought and year of graduation, must be filed not later than the Friday preceding Commencement Day.

DEGREES.

FIRST DEGREES.

The following baccalaureate degrees are conferred at graduation upon those who have successfully completed the regular courses leading to such degrees and who have fulfilled all other requirements of the University.

BACHELOR OF ARTS, for all courses in the College of Arts, Philosophy and Science.

BACHELOR OF SCIENCE IN AGRICULTURE, for the four year course in Agriculture.

BACHELOR OF SCIENCE IN HORTICULTURE AND FORESTRY.

BACHELOR OF SCIENCE IN DOMESTIC SCIENCE.

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING.

BACHELOR OF SCIENCE IN INDUSTRIAL ARTS.

BACHELOR OF SCIENCE IN PHARMACY.

CIVIL ENGINEER.

CIVIL ENGINEER IN ARCHITECTURE.

ENGINEER OF MINES.

ENGINEER OF MINES IN CERAMICS.

MECHANICAL ENGINEER.

MECHANICAL ENGINEER IN ELECTRICAL ENGINEERING

BACHELOR OF LAWS.

DOCTOR OF VETERINARY MEDICINE

HIGHER DEGREES

In College of Arts:

MASTER OF ARTS

DOCTOR OF PHILOSOPHY

In College of Law:

MASTER OF LAWS

Advanced degrees are given for graduate work in the technical colleges.

THE COLLEGES

THE COLLEGES

ADMISSION.

The University is open on equal terms to both sexes.

Applicants for admission to the Colleges of Agriculture, of Arts, Philosophy and Science, or of Pharmacy, must be at least 16 years of age; for admission to the College of Engineering or of Veterinary Medicine must be at least 17 years of age; for admission to the College of Law must be at least 18 years of age. Each must be provided with credentials of scholarship from his last instructor or from the last institution with which he has been connected, and with a certificate of good moral character.

Entrance may be made at any time if the applicant is competent to take up the work of the classes then in progress; but it is desirable to begin work at the opening of the University in September.

There are two modes of admission to the University—by examination and by certificate.

ENTRANCE EXAMINATIONS.

The entrance examinations for 1904 will be held on Monday and Tuesday, June 20 and 21, and on Monday and Tuesday, September 19 and 20. A part of the examinations may be taken in June and the remainder in September. Conditions incurred at the June examinations must be removed at the September examinations. *All applicants for admission who are not graduates of high schools of approved standing must take examinations for admission.*

CERTIFICATES.

Applicants for admission to any of the colleges may be admitted on presentation of properly indorsed certificates from secondary schools which have been "accredited" or "recognized" by the University. The statement of principles and method of procedure in classifying secondary schools are set forth in the following articles adopted by the General Faculty:

(1) That, until any High School of this State is inspected or reported upon by the *High School Visitor* and acted upon by the High School Committee, the status of certificates of that school shall continue as heretofore.

(2) That as fast as schools are reported on by the *High School Visitor* and action taken thereon by the High School Committee, the certificate privilege in the case of all rejected schools shall be terminated at once and the Deans of the various colleges of the University shall be furnished with lists of such rejected schools as well as approved schools.

(3) That approved schools shall be classified as follows:

(a) ACCREDITED SCHOOLS.

Those four-year secondary schools whose courses of study offer such branches of study as prepare students for all colleges of the University.

All GRADUATES holding certificates from this class of schools will be admitted to any college of the University without examination, provided the required entrance branches are covered in the certificates.

(b) RECOGNIZED SCHOOLS

Those three or four-year secondary schools whose courses of study do not prepare students for all colleges of the University, but include not less than 10 units of secondary instruction.

Any GRADUATE holding a certificate from one of these schools will be admitted without examination to any college of the University for which he is prepared.

A certificate from a recognized school, when it is presented by a graduate thereof, will be accepted toward admission by any college of the University; but an applicant holding such a certificate, will be subject to examination in the requirements for admission not covered by the certificate.

(4) No school shall be placed in either class until visited and reported to the High School Committee, whose duty it shall be to determine whether the conditions and quality of work in the school will warrant placing it in either of the above classes.

(5) No applicant shall be admitted by certificate to any college of the University who is not a graduate of the School from which he bears a certificate; but an applicant for admission to the College of Pharmacy who brings a certificate showing that he has completed at least three years work in an accredited school may be admitted without examination in the subjects covered by the certificate.

(6) The foregoing provisions do not apply to the College of Veterinary Medicine, or to such courses as do not lead to a degree.

ACCREDITED SCHOOLS OF OHIO.

(Certificate Privilege Expires June, 1906.)

Ashtabula, Bryan, Cambridge, Chillicothe, Circleville, Clyde, Collinwood, Coshocton, Dayton, East Cleveland, East Liverpool, Elyria, Fostoria, Fremont, Gallipolis, Glenville, Grand River Institute, Greenville, Hamilton, Hillsboro, Ironton, Jackson, Jefferson, Lakeside, Lakewood, Lancaster, Lockland, Logan, London, Madisonville, Mansfield, Martins Ferry, Marysville, Medina, Miamisburg, Nelsonville, Newark, New Lyme Institute, New Philadelphia, Piqua, Portsmouth, Sandusky, Springfield, Toledo, Troy, Urbana, Washington C. H., Wellington, Wellsville, Wooster, Wyoming, Xenia, Zanesville.

(Certificate Privilege Expires June, 1907.)

Akron, Ashland, Bellefontaine, Canton, Chardon, Cincinnati—Hughes, Woodward; Cleveland—Central, East, Lincoln, South, West; Delaware, Findlay, Gallon, Georgetown, Lima, Marion, Mechanicsburg, Mt. Vernon, New London, Norwalk, Painesville, Salem, Sidney, St. Marys, Tiffin, Van Wert, Warren, Willoughby, Youngstown.

RECOGNIZED SCHOOLS OF OHIO.

(Certificate Privilege Expires June, 1905.)

Alliance, Ashley, Carey, Chicago, Clarington, College Corner, Columbus, Columbus Grove, DeGraff, Deshler, East Palestine, Fort Recovery, Garrettsville, Genoa, Gibsonburg, Glouster, Harrison, Jamestown, Johnstown, Kinsman, Leipsic, LeRoy, Lexington, Lisbon, McArthur, Milan, Milford, Osborn, Perrysburg, Pleasant Ridge, Quaker City, Richwood, Rockford, Salineville, Solon, Stryker, Utica, Wadsworth.

(Certificate Privilege Expires June, 1906.)

Athens, Barnesville, Bellaire, Bethel Township, Miami County, Caldwell, Canal Dover, Canal Winchester, Chagrin Falls, Corning, Covington, Euclid, Germantown, Gnadenhutten, Groveport, Kingsville, Lebanon, Lorain, Napoleon, New Vienna, North Baltimore, Norwood, Oberlin, Olive Branch, Orrville, Plain City, Pomeroy, Port Clinton, O. S. and S. O. Home, Shelby, Tippecanoe City, Uhrichsville, Wauseon, Woodsfield.

(Certificate Privilege Expires June, 1907.)

Bellevue, Celina, Clintonville, Conneaut, Cuyahoga Falls, Dennison, Granville, Kirkland, Madison, Massillon, Mt. Sterling, New Bremen, Niles, Ottawa, Pataskala, Ravenna, Ripley, Spencerville, Upper Sandusky, Wapakoneta, Worthington.

ACCREDITED SCHOOLS OF OTHER STATES.

(Certificate Privilege Expires June, 1905.)

MICHIGAN: Ann Arbor Adrian, Alpena, Bay City, Battle Creek, Calumet, Coldwater—Detroit, Central, Eastern, Detroit University School, Detroit Home and Day School; Grand Haven, Grand Rapids, Hancock, Iron Mountain, Kalamazoo, Lansing, Menominee, Marquette, Muskegon, Mt. Clemens, Monroe, Marshall; Saginaw, West Side; St. Joseph; Saginaw, East Side; Traverse City, Ypsilanti.

INDIANA: Fort Wayne, Frankfort, Howe, Military School, Indianapolis Shortridge; Indianapolis Manual Training; Michigan City, Rensselaer.

ILLINOIS: Aurora, East; Aurora, West; Bloomington; Chicago—Austin, Calumet, Englewood, Hyde Park, Jefferson, John Marshall, Joseph Medill, Lake, Lake View, North West Division, Robert Waller, South Chicago, South Division, William McKinley; Clyde, DeKalb, Dixon South, Elgin, Evanston, Harvey, Joliet, La Grange, Moline, Oak Park, Ottawa, Peoria, Pontiac, Princeton, Rockford, Rock Island, Sterling.

IOWA: Boone, Cedar Rapids, Council Bluffs, Davenport, West Des Moines, Fort Dodge, Grinnell, Le Mars, Marshalltown, Ottumwa, Sioux City.

WISCONSIN: Ashland, Chippewa, Eau Clair, Fort Atkinson; Milwaukee, East Division; Milwaukee, West Division; Milwaukee, South Division; Milwaukee, Downer Seminary; Oshkosh, Racine, Ryan, Janesville, Kenosha, La Cross, Marinette, Marshfield, Merrill, Sheboygan, Sparta, Stevens Point, Superior, Blaine; Superior, Nelson Dewey; Waukesha, Whitewater.

MINNESOTA: Duluth; Minneapolis—Central, East Side; St. Paul—Central, Humboldt, Cleveland.

MISSOURI: Blee Military Academy, Columbia; Kansas City; Central, Manual Training, Westport; Kirkwood; St. Louis—Central, William McKinley, Washington University Training School.

NEBRASKA: Beatrice, Kearney, Lincoln Academy, Omaha.

COLORADO: Colorado Springs, Cripple Creek, Greeley, Kenyon City, La Junta, Leadville, Pueblo No. 1, Pueblo No. 20, Trinidad.

Diplomas and certificates from accredited and recognized schools will be accepted in lieu of examination for preparatory studies only under the following conditions:

(a) The certificate must state in detail the studies pursued, the text-books used, the amount of work done in each study, the amount of time devoted to it, and the fact that the applicant has successfully passed in the work.

(b) The certificate will be accepted for such studies only, or such part of each, as it shall show to have been satisfactorily accomplished.

(c) Every such certificate must be accompanied with a diploma showing that the candidate has been graduated from the school from which he comes. *Blank certificates may be obtained by addressing the EXECUTIVE OFFICE, OHIO STATE UNIVERSITY, COLUMBUS.* Certificates should be filled out and returned to the University as early as possible after the close of the schools in June, and in any event not later than September 1.

DESCRIPTION OF SUBJECTS ACCEPTED FOR ADMISSION.

The following is a statement in full of the requirements in each subject accepted for admission to the University. Not all of these subjects are required for admission to any one college or course. *For the specific requirements for admission to a particular college or course, see statement under that college.*

A unit course of study is a course covering a school year of not less than thirty-five weeks with four or five periods of at least forty-five minutes each per week.

(a) THE ENGLISH GROUP.

(1) *English Composition and Rhetoric. One unit.* Each applicant must be able to write clear and correct English, and no applicant will be accepted in English whose work is seriously defective in spelling, punctuation, grammar

and paragraph structure. The proper preparation for this part of the requirement is practice in composition through the four preparatory years, with correction of themes by the teacher and revision by the pupil. Subjects for themes should not be taken exclusively from literature; a large share of the subjects should be based upon the pupil's observation and experience. Practice should be afforded in writing narrative, description, exposition and argumentation. Applicants should be familiar with those principles of Rhetoric which are most helpful in elementary composition; viz., the principles of sentence structure, outlining, paragraphing and choice of words. The amount and kind of work required is indicated in Scott and Denney's *Composition-Rhetoric*.

(2) *English Classics. One unit.* The following books, or equivalents, should be read with sufficient care to insure a knowledge of their story-plot, or argument, their chief incidents, and their principal characters; so that pupils may discuss them intelligently. Four or five of these books should be examined closely in class with reference to structure and leading characteristics of style. The list (until 1905) is as follows: Shakespeare's *Merchant of Venice*, *Julius Caesar*, and *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Rodger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

(3) *English Literature. One unit.* A good knowledge of the leading facts in the history of English Literature, as given in Scudder's *English Literature*, Johnson's *History of English and American Literature* or the Introductions by Pancoast, Painter, Halleck, or Newcomer; together with the reading of representative works of literature. This may be offered in lieu of subject (2).

(b) THE HISTORY GROUP.

(4) *Civil Government. One-half unit.* A good knowledge of the origin, principles, forms and powers of the national, state and local governments is expected. Fiske's *Civil Government*, with a special study of the State from which the student comes, may serve to indicate the amount and kind of knowledge sought.

(5) *United States History. One-half unit.* A good knowledge of the main facts and features of American history, especially of the period since 1750, is expected. Johnson's *High School History of the United States*, or McLaughlin's *History of the American Nation*, or Montgomery's *Students' American History* will serve to show the kind and amount of work sought. No credit upon certificate will be accorded in this subject for work done below the ninth grade.

(6) *General History. One unit.* Adams's *European History*, Myers' *General History*, or an equivalent.

(7) *Greek and Roman History. One-half unit.* Botsford's *History of Greece and History of Rome*, or equivalents.

(8) *English History. One-half unit.* Montgomery's *Leading Facts of English History*, Larned's *History of England*, or equivalent.

(c) THE MATHEMATICS GROUP.

Algebra and Geometry together count three units.

(9) *Algebra.* Taylor's *Elements of Algebra* or an equivalent.

First, special attention should be given to the four fundamental operations (single and system), factoring, highest common factor, lowest common multiple, fractions and fractional equations, involution, evolution, surds, complex quantities, quadratic equations, solved by factoring, by completing the square and the general formula.

Second, a thorough review of the work above named, irrational equations, simultaneous quadratic equations, higher equations solvable by factoring, ratio, proportion, progressions, theory of exponents, binomial theorem for positive integral exponents and use of five-place tables of logarithms. It is recommended that this work be taken in the last year of the high school course.

(10) (*Geometry.*) Venable, White, Wells, Wentworth, Beman and Smith, or an equivalent. Plane geometry with solution of originals. Solid and spherical geometry, with solution of originals given in the text-books named above.

(11) *Plane Trigonometry. One-half unit.* Lyman and Goddard's *Plane Trigonometry*.

(d) THE SCIENCE GROUP.

(12) *Physics. One unit.* Gage's *Elements*, Carhart and Chute, Avery, Appleton. Laboratory training, to accompany the work of the text-book, is strongly recommended, but is not required for the present.

(13) *Physical Geography. One-half unit.* Tarr's, Davis' or Gilbert and Brigham's *Physical Geography*.

(14) *Botany. One-half unit.* Kellerman's *Elementary Botany* and Spring Flora, or an equivalent. The course should be divided between spring and fall.

(15) *Chemistry. One unit.* Remsen's introduction to the Study of Chemistry, or its equivalent. For laboratory work, McPherson's *Laboratory Exercises*, arranged to accompany Remsen's *Chemistry*. The course should consist of at least three recitations and four hours laboratory work weekly. No credit in chemistry will be allowed for preparatory work less thorough than that outlined above.

(16) *Physiology. One-half unit.* Martin's *Human Body* (brief course). No credit will be accorded in this subject for work done below the ninth grade.

(17) *Zoology. One-half unit.* Brigham's. Dana and Rice's (revised), Kellogg's "Elementary Zoology"; Davenport's "Introduction"; or equivalents, with laboratory or field work.

(18) *Geology. One-half unit.* Brigham's, Dana and Rice's (revised), Tarr's or LeConte's, may be used as texts. The recitations should be supplemented by study of the geological phenomena and formations found in the vicinity of the school.

(19) *Astronomy. One-half unit.* Young's *Lessons*, Comstock's, or equivalent.

(e) THE FOREIGN LANGUAGE GROUP.

(20) *Latin. Two units.* Pronunciation (Roman method); Grammar (an exact knowledge of the inflections); Caesar, the first four books of the *De Bello Gallico*. *Third unit*—Cicero, six orations of Cicero, including *Pro Lege Manilia*. *Fourth unit*—Virgil, the first six books of the *Aeneid* with Prosody; and Prose Composition, Daniell, or Collar, or Jones, or Dodge and Tuttle, entire. Latin cannot be continued as a university study unless at least three units are offered for admission.

(21) *Greek. Two units.* Grammar (Goodwin's preferred) and Prose Composition; or the first 100 lessons in White's *Beginner's Greek Book*. Reading: The first three books of Xenophon's *Anabasis*. A *third unit* will be allowed for preparation in the fourth, fifth and six books of the *Anabasis* and three books of Homer's *Iliad*, and a *fourth unit* for additional reading in Greek.

(22) *German. Two units.* The pupil should be able to read at sight, and to translate, if called upon, by way of proving his ability to read, a passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions; to put into German short English sentences taken from the language of every-day life or based upon the text given for translation, and to answer questions upon the rudiments of grammar as defined below. During the first year the work should comprise: (1) Careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the more usual strong verbs, also upon the use of the more common prepositions, the simpler uses of the model auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences and in the reproduction from memory of sentences previously read. During the second year the work should comprise: (1) The reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read, and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the gram-

mar, directed to the ends of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, secondly, to state his knowledge correctly in the technical language of grammar.

Four units. The applicant must offer, in addition to the above, two additional years of instruction in German, including a review of the essentials of grammar. The rapid reading of at least 200 pages of prose; for example, the following: Heyse's *L'Arrabiata*, Riehl's *Der Fluch der Schönheit*, Hauff's *Lichtenstein*. The outlines of German literature should be mastered. In connection with this about 200 pages of German ballads and lyrics should be read. Some book like v. Klenze's *Deutsche Gedichte* might be used. A considerable portion of the prose and poetry should be read extemporaneously. About 50 pages in some prose composition should be translated. Text-books suggested are: v. Jagemainn's, Poll's or Harris' *Prose Composition*. The work in composition should be carried on as far as possible in German. All exercises should be had in this entire course, as far as they may be used without interfering with the thoroughness of the work.

(23) *French. Two units.* Applicants should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of every-day life or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar as defined below. During the first year the work should comprise: (1) Careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles and pronouns; the use of personal pronouns, common adverbs, prepositions and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation. During the second year the work should comprise: (1) The reading of from 250 to 400 pages of easy modern (nineteenth century) prose in the form of stories, plays or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Four units. In addition to the above, the applicant should be able to read at sight, with the help of a vocabulary of special or technical expressions, difficult French not earlier than that of the seventeenth century; to write in French a short essay on some simple subject connected with the works read; to put into French a passage of easy English prose and to carry on a simple conversation in French.

(24) *Spanish. Two units.* Applicants should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of every-day life or based upon a portion of the Spanish text read, and to answer questions on the essentials of the grammar. The first year should be spent mainly on the grammar with easy reading and oral practice; the second devoted to reading good modern Spanish, with grammatical analysis and exercises in writing. The texts read should be chiefly narrative and conversational prose, including one or more prose dramas of the present age.

Four units. In addition to the above, the applicant should be able to read at sight, with the help of a vocabulary of special or technical expressions, difficult Spanish, whether prose or poetry; to write in Spanish a short essay on some simple subject connected with the works read, which shall show a thorough knowledge of syntax; to put into Spanish a passage of easy English prose, and to carry on a simple conversation in Spanish.

ADMISSION TO SPECIAL STUDIES.

Students who desire to pursue special lines of work and do not desire to become candidates for degrees, will be admitted on the following conditions:

1. The regular entrance requirements must be satisfied.
2. But applicants who are not less than twenty-one years of age after obtaining credit for the common English branches and for such other subjects as may be necessary to qualify them for the classes that they wish to enter, may, on the presentation of satisfactory reasons, be admitted to any class in the College; provided, that if any student who has been admitted on these conditions afterwards becomes a candidate for a degree, he shall pass the omitted entrance examinations at least twelve months before the degree is conferred.
3. On entering the College, students desiring to pursue special work are required to lay before the Executive Committee, for approval or modification, a written statement of the end they have in view, the studies proposed for the attainment of that end, and the probable period of attendance. Such students will be held as strictly to their accepted schemes of work as are the regular undergraduates to their course of study.
4. Permission to enter as special undergraduates will be refused to all who fail to give satisfactory evidence of definiteness of purpose, and will be withdrawn whenever the conditions on which it was granted cease to exist.

ADMISSION TO ADVANCED STANDING.

1. Applicants who do not come from some other university or college must first obtain admission to the College in the manner already described. They will then be examined on the undergraduate studies for which they ask credits.
2. Applicants who come from the collegiate department of an approved College, and who bring explicit and official certificates describing their course of study and scholarship, and also certificates of honorable dismissal, will be admitted without examination except such as may be necessary to determine what credit they are to receive here for work done in the college from which they come.

ADMISSION TO GRADUATE WORK.

Graduates of this or other institutions may, on application to the Faculty, enter the University and pursue such lines of work as may be arranged or approved by the appropriate collegiate committee. Such graduate students are subject to all the ordinary regulations (as to fees, attendance, etc.), prescribed for undergraduates.

IN THE COLLEGES OF AGRICULTURE AND DOMESTIC SCIENCE,
ENGINEERING, LAW AND PHARMACY.

Masters degrees are conferred upon graduates in Agriculture, Horticulture and Forestry, Engineering, Law and Pharmacy at the end of not less than one year's residence, which shall be wholly devoted to the completion of an approved course of study in the University. Each is required in addition to present an acceptable thesis upon some subject connected with his course of study.

IN THE COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE.

Registration as a student in the Graduate School is open to all graduates of the College of Arts, Philosophy and Science of this University, and to graduates of other colleges of this University, or of other universities or colleges who satisfy the Administrative Board that they are qualified to pursue with profit the work here offered in the lines of study which they wish to carry on.

Graduates of institutions of which the undergraduate courses of study are not substantially equivalent to the course prescribed in this college for the bachelor's degree will be required to do an additional amount of undergraduate work, or to prolong their term of residence, before being admitted to full candidacy for a higher degree.

Bachelors of this College or of other institutions who do not wish to become candidates for a higher degree may be admitted as special graduate students.

Application for admission as a graduate student should be addressed to the Chairman of the Administrative Board of the Graduate School.

THE COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

The College of Agriculture and Domestic Science offers six distinct courses of study:

1. *A four years' Course in Agriculture.*
2. *A four years' Course in Horticulture and Forestry.*
3. *A two years' Course in Agriculture and Horticulture.*
4. *A winter term's Course in Dairying.*
5. *A four years' Course in Domestic Science.*
6. *A two years' Course in Domestic Science.*

REQUIREMENTS FOR ADMISSION TO THE FOUR-YEAR COURSES.

The following are the requirements:

- A. Two units chosen from the following:

English Composition and Rhetoric.....	1 unit
English Classics	1 unit
English Literature	1 unit
- B. Two units chosen from the following:

Civil Government	$\frac{1}{2}$ unit
United States History.....	$\frac{1}{2}$ unit
General History	1 unit
Greek and Roman History.....	$\frac{1}{2}$ unit
English History	$\frac{1}{2}$ unit
- C. Two units as follows:

Algebra	1 unit
Plane Geometry	1 unit
- D. Two units as follows:

Physics	1 unit
Physical Geography	$\frac{1}{2}$ unit
Botany	$\frac{1}{2}$ unit
- E. Two units chosen from the following:

Latin	2 units
German	2 units
French	2 units

The extent and character of the work required in each subject mentioned above is to be found on pages 65-69.

For the present, the *German or French* required for admission may be begun at the University, but without University credits. A student may enter with conditions, amounting to two units, not counting German or French.

Algebra, Plane Geometry, Botany, Physics and Physical Geography are taught as a part of the Short Course in Agriculture. Students may prepare in these subjects for entrance to the four-year courses by entering the Short Course in Agriculture.

*A person twenty-one years of age, or over, who desires to pursue a special line of work and does not desire to become a candidate for a degree, may be admitted by vote of the Executive Committee to such classes as he is qualified to enter; provided, that if he afterwards becomes a candidate for a degree he must pass the requirements for admission at least one year before the degree is conferred. See "Admission to Special Studies," page 69.

REQUIREMENTS FOR SHORT COURSE IN DOMESTIC SCIENCE.

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar and United States History.*
2. *English—(a) Composition and Rhetoric; (b) English Classics.*
3. *Algebra.*
4. *Plane Geometry.*
5. *Civil Government.*
6. *General History.*

REQUIREMENTS FOR THE SHORT COURSE IN AGRICULTURE AND THE COURSE IN DAIRYING.

Applicants unless over twenty-one, must pass an examination in *Arithmetic, Geography, Grammar and United States History*, or bring high school or other certificates for those branches. The requirements for English Grammar in the Short Courses may be met by writing a business letter or theme on some practical subject. Applicants who are over twenty-one are admitted without examination.

ADMISSION TO SPECIAL STUDIES.

Students who desire to pursue special lines of work in this college and do not desire to become candidates for degrees, will be admitted on the following conditions, as stated on page 69.

ADMISSION TO ADVANCED STANDING.

For admission to advanced standing in this college see requirements as stated on page 69.

ADMISSION TO GRADUATE WORK.

For admission to graduate work in this college see statement on page 69.

OUTLINE OF THE COURSE IN AGRICULTURE

Degree: Bachelor of Science in Agriculture.

NOTE.—The figure in parenthesis following the name of each study indicates the number of that study in its department. The other figure indicates the number of credit hours.

FIRST YEAR

REQUIRED.

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agr'l Chemistry (10)	6	Agr'l Chemistry (11)	6	Agr'l Chemistry (12)	6
Principles.		Principles.		Organic.	
Zoology (1)	3½	Zoology (1)	3½	Zoology (1)	3½
Invertebrate.		Invertebrate.		Vertebrate.	
English (1)	2	English (1)	2	English (1)	2
Paragraph Writing, etc.		Paragraph Writing, etc.		Paragraph Writing, etc.	
†French (1)	4	French (1)	4	French (1)	4
Elementary.		Elementary.		Elementary.	
†German (1)		German (1)		German (1)	
Elementary.		Elementary.		Elementary.	
or		or		or	
Spanish (1)	3	Spanish (1)	3	Spanish (1)	3
Elementary.		Elementary.		Elementary.	
Drawing (10)		Shopwork (2)		Shopwork (1)	
Cadet Service.*		Gymnasium.		Cadet Service.	

*A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' Cadet Service as a condition of graduation. Students physically incapacitated for Cadet Service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

SECOND YEAR**REQUIRED.**

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Animal Husbandry (2)	4½	Animal Husbandry (6)	4½	Animal Husbandry (4)	4½
Breeds of Live Stock.		Principles of Breeding.		Breeds of Live Stock.	
Agr'l Chemistry (13)	5	Agr'l Chemistry (13)	5	Agr'l Chemistry (13)	5
Laboratory.		Laboratory.		Laboratory.	
Botany (6)	4	Botany (7)	4	Botany (8)	4
Physiological.		Economic.		Vegetable Pathology.	
Physiology (1)	3	Physiology (1)	3	Physiology (1)	3
Anatomy.		Physiology.		Physiology.	
Zoology (4)	2½	Zoology (4)	2½	Zoology (4)	2½
Economic Entomology.		Economic Entomology.		Economic Entomology.	
Cadet Service.		Gymnasium.		Cadet Service.	

THIRD YEAR**REQUIRED.**

Agronomy (2)	4½	Agronomy (12)	4½	Agronomy (22)	4½
Farm Equipment.		Elementary Soils.		Farm Crops.	
Geology (2)	5	Geology (5)	3½	Drawing (16)	3
General.		Applied.		Astronomy (3)	2
				Meteorology.	
*Vet. Medicine (28)	4½	Vet. Medicine (29)	4½	Vet. Medicine (30)	4½
Anatomy.		General Pathology.		Special Pathology.	
Horticulture (1)	4½	Horticulture (6)	4½	Horticulture (3)	4½
Elements.		Principles of Fruit Culture.		Plant Propagation.	

FOURTH YEAR**REQUIRED.**

American History (1)	} 3	American History (1)	} 3	American History (1)	} 3
U. S. Political.		U. S. Political.		U. S. Political.	
or		or		or	
Economics (1)	} 2	Economics (1)	} 2	Economics (1)	} 2
Political Economy.		Political Economy.		Political Economy.	
Thesis.		Thesis		Thesis	

Eight hours per week through the year chosen from any of the following courses:

Agronomy (14)	5	Agronomy (24)	4	Agronomy (4)	5
Advanced Soils.		Agr'l Experimentation.		Rural Engineering.	
Rural Economics (2)	4	Rural Economics (4)	4	Agronomy (26)	4
Farm Management.		History and Literature of Agriculture.		Improvement Farm Crops.	
				Agronomy (16)	3
Animal Husbandry (8)	4	Animal Husbandry (10)	4	Field Work in Soils.	
Stock Feeding.		Hygiene and Management.		Rural Economics (6)	4
Animal Husbandry (12)	4½	Animal Husbandry (14)	4½	Agr'l Economics.	
Animal Conformation, etc.		Live Stock Markets and Commerce.		Animal Husbandry (16)	4½
Dairying (12)	5	Dairying (14)	5	Wools and other fibres.	
Elements.		Buttermaking.		Dairying (16)	5
*Agr'l Chemistry (6)	4	Agr'l Chemistry (6)	4	Cheesemaking.	
Laboratory.		Laboratory.		Agr'l Chemistry (6)	4
Vet. Medicine (24)	3	Vet. Medicine (18)	3	Laboratory.	
General Surgery.		Surgical Diseases.		Vet. Medicine (18)	3
Bacteriology (5)	4	Bacteriology (5)	4	Surgical Diseases.	
				Bacteriology (5)	4

ELECTIVE.

Four hours a week through the year chosen from any of the courses given in any of the Colleges of the University upon which the student is qualified to enter, except the College of Law.

†Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

*In case a student intends to elect Agricultural Chemistry (6) 4, and Agronomy (14), (24), (4), 5, he may elect Agricultural Chemistry 5 hours in place of Veterinary Medicine (28), (29) and (30), 4½.

THESIS.

At the beginning of the fourth year, each student in this course shall take up as thesis work some special line of inquiry within the field of the degree sought. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

OUTLINE OF THE COURSE IN HORTICULTURE AND FORESTRY

Degree: Bachelor of Science in Horticulture and Forestry.

FIRST YEAR

REQUIRED.

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agr'l Chemistry (10)	6	Agr'l Chemistry (11)	6	Agr'l Chemistry (12)	6
Principles.		Principles.		Organic.	
Zoology (1)	3½	Zoology (1)	3½	Zoology (1)	3½
Invertebrate.		Invertebrate.		Vertebrate.	
English (1)	2	English (1)	2	English (1)	2
Paragraph Writing, etc.		Paragraph Writing, etc.		Paragraph Writing, etc.	
*French (1)	4	French (1)	4	French (1)	4
*Elementary.		Elementary.		Elementary.	
*German (1)		German (1)		German (1)	
*Elementary.		Elementary.		Elementary.	
or		or		or	
Spanish (1)		Spanish (1)		Spanish (1)	
Elementary.		Elementary.		Elementary.	
Drawing (10)	3	Shopwork (2)	3	Shopwork (1)	3
Cadet Service.		Gymnasium.		Cadet Service.	

SECOND YEAR

REQUIRED.

Horticulture (1)	4½	Horticulture (2)	4½	Horticulture (3)	4½
Elements.		Vegetable Forcing.		Plant Propagation.	
Agr'l Chemistry (13)	5	Agr'l Chemistry (13)	5	Agr'l Chemistry (13)	5
Laboratory.		Laboratory.		Laboratory.	
Physiology (1)	3	Physiology (1)	3	Physiology (1)	3
Anatomy.		Physiology.		Physiology.	
Zoology (4)	2½	Zoology (4)	2½	Zoology (4)	2½
Economic Entomology.		Economic Entomology.		Economic Entomology.	
Botany (6)	4	Botany (7)	4	Botany (8)	4
Cadet Service.		Cadet Service.		Cadet Service.	

THIRD YEAR

REQUIRED.

Horticulture (5)	4½	Horticulture (6)	4½	Horticulture (14)	4½
Varieties of Fruit.		Principles of Fruit.		Olericulture.	
Agronomy (2)	4½	Agronomy (12)	4½	Agronomy (22)	4½
Farm Equipment.		Soils.		Farm Crops.	
Geology (2)	5	Geology (5)	3½	Astronomy (3)	2
General.		Applied.		Meteorology.	
French (2)	4	French (2)	4	Drawing (16)	3
German (4)		German (4)		Zoology (3)	2½
or		or		Economic Entomology.	
Botany (17)		Botany (18)		French (2)	4
Forest.		Histology of Wood.		German (4)	
				or	
				Botany (19)	
				Forest Ecology and	
				Pathology.	

*Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

FOURTH YEAR

REQUIRED.

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Horticulture (8) Ornamental Plants.	2½	Horticulture (9) Window Gardening. and Floriculture.	2½	Horticulture (10) Home Gardening.	2½
Horticulture (11) Elements of Forestry.	5	Horticulture (12) Forest Technology and Timber Physics.	5	Horticulture (13) Forest Economics.	5
American History (1) U. S. Political. or Economics (1) Political Economy. Thesis.	3 2	American History (1) U. S. Political. or Economics (1) Political Economy. Thesis.	3 2	American History (1) U. S. Political. or Economics (1) Political Economy. Thesis.	3 2

ELECTIVE.

Five hours a week through the year chosen from any of the courses given in any College of the University upon which the student is qualified to enter, except the College of Law.

THESIS.

The requirement for thesis is the same as for the Course in Agriculture. See page 74.

OUTLINE OF THE COURSE IN DOMESTIC SCIENCE

Degree: Bachelor of Science in Domestic Science.

FIRST YEAR

REQUIRED.

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Ag'l Chemistry (10) Principles.	6	Ag'l Chemistry (11) Principles.	6	Ag'l Chemistry (12) Organic.	6
Drawing (29) English (1)	1 2	Drawing (29) English (1)	1 2	Drawing (29) English (1)	1 2
Paragraph Writing, etc. Zoology (1)	3½	Paragraph Writing, etc. Zoology (1)	3½	Paragraph Writing, etc. Zoology (1)	3½
Invertebrate. French (1)	4	Invertebrate. French (1)	4	Vertebrate. French (1)	4
Elementary. German (1)		Elementary. German (1)		Elementary. German (1)	
Elementary. or Spanish (1)		Elementary. or Spanish (1)		Elementary. or Spanish (1)	
Elementary. Domestic Art (1)	3	Elementary. Domestic Art (2)	3	Elementary. Domestic Art (3)	3
Handcraft.		Textiles.		Textiles.	
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

SECOND YEAR

REQUIRED.

Ag'l Chemistry (14) Laboratory.	3	Ag'l Chemistry (14) Laboratory.	3	Physiology (3) Chemical Physiology.	3
Domestic Science (1) Food Economics.	5	Domestic Science (2) Food Economics.	5	Domestic Science (3) Food Economics.	5
Physiology (1) Botany (6)	3 4	Physiology (1) Botany (7)	3 4	Physiology (1) Botany (13)	3 4
Physiological. Education (1)	3	Economic. Education (1)	3	Vegetable Pathology. Education (1)	3
Hygiene and Phys. Train.		Hygiene and Phys. Train.		Hygiene and Phys. Train.	

†Where credit is received for elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

CATALOGUE

THIRD YEAR

REQUIRED.

Domestic Science (4)	5	Domestic Art (4)	5	Domestic Art (5)	5
Preservation of Foods.		History of Costumes.		Household Art and	
Drawing (20)	1½	Drawing (15)	1½	Decoration.	1½
Mechanical.		Architectural.		House Designing.	
French (2)	} 4	French (2)	} 4	French (2)	} 4
or		or		or	
German (4)		German (4)		German (4)	
Architecture (9)	3	Architecture (10)	3	Architecture (11)	3
History of Art and		History of Art and		History of Art and	
Architecture.		Architecture.		Architecture.	

Any two of the following studies:

English Literature (1)	3	English Literature (1)	3	English Literature (1)	3
Economics (1)	3	Economics (1)	3	Economics (1)	3
Political Economy.		Political Economy.		Political Economy.	
European History (1)	3	European History (2)	3	European History (3)	3
American History (1)	3	American History (1)	3	American History (1)	3
U. S. Political.		U. S. Political.		U. S. Political.	
Bacteriology (5)	4	Bacteriology (5)	4	Bacteriology (5)	4

FOURTH YEAR

REQUIRED.

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Domestic Art (6)	3½	Domestic Science (11)	2½	Domestic Science (12)	3½
Theory and Practice of		Therapeutic Diet and		Theory and Practice of	
Teaching D. A.		Emergency Work.		Teaching D. S.	
Education (4)	2	Education (4)	2	Domestic Science.	
Child Study.		Child Study.		Household Economics (10)	2½
Horticulture (16)	2½	Horticulture (11)	2½	Education (4)	3
Nature Study.		Special.		Child Study.	
Zoology (5)	3			Household Dairying (20)	2
Thesis.	2	Thesis.	2	Dairying.	
				Thesis.	2

ELECTIVE.

Four hours a week through the year chosen from any of the courses given in any College of the University upon which the student is qualified to enter, except in the College of Law.

THESIS.

The requirement for thesis is the same as for Course in Agriculture. See page 74.

THE SHORT COURSES.

No degree is given on the completion of the Short Courses, but a certificate is issued stating fully the work done.

OUTLINE OF THE SHORT COURSE IN AGRICULTURE

FIRST YEAR

REQUIRED.

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agr'l Chemistry (1)	6	Agr'l Chemistry (8)	6	Agr'l Chemistry (9)	6
Principles.		Organic.		Applications.	
Mathematics (1)	5	Mathematics (3a)	5	Botany (1)	5
Algebra.		Geometry.		Elementary.	
Physics (1)	5	Physics (1)	5	Geology (1)	5
Elementary.		Elementary.		Physiography.	
Drawing (10)	3	Shopwork (1)	3	Shopwork (2)	3
Mechanical.					
Cadet Service		Gymnasium.		Cadet Service.	

SECOND YEAR

Not less than 15 hours per week through the year chosen from any of the following courses subject to conditions named under "Departments of Instruction."

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Animal Husbandry (1)	4½	Animal Husbandry (3)	4½	Animal Husbandry (5)	4½
Breeds of Live Stock.		Stock Feeding.		Principles of Breeding.	
Agronomy (2)	4½	Agronomy (11)	4½	Agronomy (22)	4½
Farm Equipment.		Soils.		Farm Crops.	
Dairying (12)	5	Dairying (14)	5	Dairying (16)	5
Elements.		Buttermaking.		Cheesemaking.	
Horticulture (1)	4½	Horticulture (6)	4½	Horticulture (3)	4½
Elements.		Principles of Fruit Culture.		Plant Propagation.	
Vet. Medicine (28)	4½	Vet. Medicine (29)	4½	Vet. Medicine (30)	3
Anatomy.		General Pathology.		Special Pathology.	
Physiology (2)	3	Bacteriology (2)	2	Zoology (7)	3
Cadet Service.		Gymnasium.		Cadet Service.	

OUTLINE OF THE SHORT COURSE IN DOMESTIC SCIENCE**FIRST YEAR****REQUIRED.**

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agr'l Chemistry (10)	6	Agr'l Chemistry (11)	6	Agr'l Chemistry (12)	6
Principles.		Principles.		Organic.	
Physics (1)	5	Physics (1)	5	Botany (1)	5
Elementary.		Elementary.		Elementary.	
French (1)	} 4	French (1)	} 4	French (1)	} 4
German (1)		German (1)		German (1)	
or		or		or	
Spanish (1)	} 2	Spanish (1)	} 2	Spanish (1)	} 2
Drawing (29)		Drawing (29)		Drawing (29)	
Hygiene and Phys. Train.		Hygiene and Phys. Train.			

SECOND YEAR**REQUIRED.**

Domestic Art (1)	3	Domestic Art (2)	3	Domestic Art (3)	3
Domestic Science (1)	5	Domestic Science (2)	5	Domestic Science (3)	5

ELECTIVE.

Not less than ten or twelve hours per week chosen from the following courses, subject to the conditions named under "Departments of Instruction."

Drawing (20)	1½	Drawing (15)	1½	Drawing (15)	1½
Botany (6)	4	Botany (7)	4	Botany (13)	4
Physiological.		Economic.		Household.	
Education (1)	3	Education (1)	3	Education (1)	3
English Literature (1)	3	English Literature (1)	3	English Literature (1)	3
Horticulture (8)	2½	Horticulture (9)	2½	Horticulture (10)	2½
Elements of Floriculture.		Window Gardening.		Home Gardening.	
Zoology (1)	3½	Zoology (1)	3½	Zoology (1)	3½
Invertebrate.		Invertebrate.		Vertebrate.	
English (1)	2	English (1)	2	English (1)	2
Physiology (1)	3	Physiology (1)	3	Physiology (1)	3
European History (1)	3	European History (2)	3	European History (3)	3
American History (1)	3	American History (1)	3	American History (1)	3

OUTLINE OF THE COURSE IN DAIRYING

The Course in Dairying begins the first Tuesday in January; all other courses begin on Tuesday following the sixteenth of September. Students wishing to take the Course in Dairying should send for special pamphlet entitled "The Dairy School."

CATALOGUE

The Two Term Course in Dairying

FIRST YEAR

REQUIRED WORK.

Dairying (1)	6	Dairying (3)	3
Laboratory.		Elements.	
Agricultural Chemistry (7)	4	Mechanical Engineering (26)	1
Milk Chemistry and Milk Testing.		Care of Steam Engine and Boiler.	

Not less than two or more than four hours per week chosen from the list of electives.

SECOND YEAR

REQUIRED WORK.

Dairying (2)	6	Dairying (4)	2
Laboratory.		Advanced.	

Not less than eight or more than ten hours per week chosen from the list of electives.

ELECTIVES.

Animal Husbandry (13)	3	Animal Husbandry (15)	4
Dairy Cattle Feeding.		Dairy Breeds and Breeding.	
Bacteriology (2)	2	Agricultural Chemistry (15)	2
Milk Fermentation.		Milk Chemistry.	
Veterinary Medicine (7)	4		
Diseases of Dairy Cattle.			

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

The College of Arts, Philosophy and Science offers two courses of study:
The Undergraduate Course.
The Graduate Course.

REQUIREMENTS FOR ADMISSION.

Fifteen units, as described below, are required for *unconditional* admission. No one under twenty-one years of age* will be admitted on less than thirteen units. For *unconditional* admission the candidate must be prepared to offer:

- A. Two units chosen from the following:

English Composition and Rhetoric.....	1 unit
English Classics	1 unit
English Literature	1 unit
- B. Two units chosen from the following:

Civil Government	½ unit
United States History.....	½ unit
General History	1 unit
Greek and Roman History.....	½ unit
English History	½ unit
- C. Three units as follows:

Algebra, Plane Geometry, and Solid Geometry or Plane Trigonometry	3 units
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- D. Two units chosen from the following, including Physics:

Physics	1 unit
Physical Geography	½ unit
Chemistry	1 unit
Botany	½ unit
Physiology	½ unit
Zoology	½ unit
Geology	½ unit
Astronomy	½ unit
- E. Six units chosen from the following; or two *extra* units, chosen from the preceding groups, and four units from the following:

Latin	2 to 4 units
Greek	2 to 4 units
German	2 to 4 units
French	2 to 4 units
Spanish	2 to 4 units

The extent and character of the work required in each subject mentioned will be found on pages 65-69.

* A person twenty-one years of age, or over, who desires to pursue a special line of work and does not desire to become a candidate for a degree, may be admitted by vote of the Executive Committee to such classes as he is qualified to enter; provided, that if he afterwards becomes a candidate for a degree he must pass the requirements for admission at least one year before the degree is conferred.

CATALOGUE

ADMISSION TO SPECIAL STUDIES.

Students who desire to pursue special lines of work in this College will be admitted on the conditions as stated on page 69.

ADMISSION TO ADVANCED STANDING.

For admission to advanced standing in this College see requirements as stated on page 69.

ADMISSION TO GRADUATE SCHOOL.

For admission to the graduate school see statement as found on pages 69, 70 and 84.

REQUIREMENTS FOR GRADUATION.

UNDERGRADUATE COURSES OF STUDY.

The work of the College of Arts, Philosophy, and Science is organized on the group-elective system. Several of the groups correspond in their chief studies and leading aims to the "courses"¹ formerly offered, but with much greater flexibility and much freer opportunities for election. Many other "courses" having equally specific aims are also provided in the groups. The groups, so far as at present arranged, number fourteen. This number will be increased as reasonable demand may arise for new groups. The characteristic features of each group may be judged from its name which is made up of the names of the chief studies of the group. The groups at present recommended are given on page 79.

About one-third of every student's curriculum is prescribed. Each student is required to lay sufficiently broad foundations, during the first two years, in English, in two other languages to be chosen by himself, in mathematics and one science, or in two sciences to be chosen by himself, in history, economics, English, or philosophy. The remaining two-thirds of each student's work is elective; but in order to insure substantial results in the studies thus freely chosen, the student is required to continue two of his first-year studies (any two) through the second year, one of his second-year studies (any one) through the third year, and one of his third-year studies (any one) through the fourth year. In order to guard against the danger of too narrow or too wide a range of work, a maximum and a minimum number of departments is fixed in which the student is allowed to work during any one year. In the first and second years the number of departments thus fixed is four or five; in the third and fourth years the number is three or four.

The degrees conferred at the satisfactory completion of a "course" in the College of Arts, Philosophy and Science will hereafter be the degree of Bachelor of Arts.

All members of the Faculty, but the Dean and the members of the Executive Committee especially, are always glad to advise with the students respecting choice of studies.

REQUIREMENTS.

On satisfactory completion of 180 term hours under the restrictions prescribed below, the student will be recommended for the Degree of Bachelor of Arts.

¹ Arts or Classical, Latin-Philosophy, Modern Language, Philosophy, English Philosophy, General Science, Commerce and Administration, Education, Preparatory to Law, Preparatory to Medicine, Preparatory to Journalism.

The 180 term hours must include the following, amounting to 57 term hours:

- (a) English 1. (2-2-2) 6 term hours.
- (b) Two of the following: (8-8-8) 24 term hours.
 Greek 1 or 7, 8, 9; Latin 1, 2, 3;
 French 1 or 2; German 1 or 4; Spanish 1 or 2.
- (c) Mathematics 31, 32, 33 and 24. (6-6-6) 18 term hours.
 Two of the following:
 Mathematics 21, 22, 23; Physics 11 or 2;
 Chemistry 1; Botany 21, 22, 23; Zoology 1;
 Geology 17; Physiology 1.
- (d) One of the following: (3-3-3) 9 term hours.
 European History 1 or 14; American History 1;
 Economics 1 or 2, 3, 4; Philosophy 18, and 19 or 20;
 English 7 or 8.

For the remaining 123 term hours required for graduation the student may elect from any courses announced for students of this College in the "Departments of Instruction," (see pages 110 to 180) as follows:

- American History and Political Science—All courses.
- Anatomy and Physiology—Courses 1, 3, 4, 5, 9, 11.
- Astronomy—All courses.
- Bacteriology—5, 6.
- Botany—3, 4, 6, 7, 8, 9, 10, 11, 13, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, 27, 32, 33, 28, 29, 30, 31.
- Chemistry—1, 17, 21, 31, 8, 9, 11, 30, 35, 33, 32, 15, 25, 26, 27, 28, 29, 36, 37, 38, 39, 40, 41.
- Civil Engineering—21.
- Domestic Science—1, 2, 3, 10.
- Drawing—7, 10, 14, 17, 18, 19, 24, 25, 26.
- Economics and Sociology—All courses.
- Education—All courses.
- Electrical Engineering—6, 7, 8, 9, 10, 11.
- English—All courses.
- European History—All courses.
- Geology—6, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20.
- German—All courses.
- Greek—All courses.
- Latin—All courses.
- Law—Elementary Law, 5 hours; Contracts, 4 hours; Negotiable Instruments, 5 hours.
- Mathematics—21, 22, 23, 24, 28, 31, 32, 33, 41, 42, 43, 71, 72, 73, 25.
- Mechanical Engineering—34.
- Metallurgy and Mineralogy—2, 3, 5.
- Philosophy—All courses.
- Physics—2, 3, 4, 11, 12, 13, 14, 15, 16.
- Romance Languages—All courses.
- Zoology and Entomology—1, 2, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27.

FIRST YEAR

- (a) Fifteen or sixteen hours each term. This must include all the prescribed work indicated above, including English 1.
- (b) Cadet service (men); Hygiene and Physical Training (women); required throughout the first year.

SECOND YEAR

- (a) Fifteen hours each term. This must include all the prescribed work not done in the first year; the other work of the second year to be in three or four departments of which at least two shall be departments in which the student has worked during the first year.
- (b) Cadet service (men); Hygiene and Physical Training (women); required through the second year.

THIRD YEAR

Fifteen hours each term in three or four departments, at least one to be a department in which the student has worked during the second year.

CATALOGUE

FOURTH YEAR

Fifteen hours each term in three or four departments, at least one to be a department in which the student has worked during the third year.

EXTRA HOURS

A student who has postponed a study in group (b) from the first to the second year, may take sixteen hours in the second year, and by the permission of the Executive Committee a student who has shown exceptional proficiency may be allowed to undertake from one to three extra hours. No extra hours will be granted to a first-year student, or to any student with conditions outstanding.

RULES GOVERNING ELECTIONS

Each student enrolled in the College of Arts, Philosophy and Science must file at the Registrar's office not later than June 1st of each year a complete statement of the courses he wishes to enter the following year. Blanks for this purpose may be obtained of the Registrar.

FIRST YEAR OPTIONS

In order to meet the requirements for graduation, the first-year student must arrange his work on one of the following plans:

I. English; two languages; two sciences, or mathematics and one science, or mathematics alone; deferring until the second year the selection from group (d), above.

II. English; two languages; mathematics or science; one subject from group (d); deferring until the second year a second subject from group (c) above.

III. English; one language; two sciences, or mathematics and one science, or mathematics alone; one subject from group (d); deferring until the second year the second language from group (b), above.

In order to assist the student in his choice of work for the first two years, more specific directions are given below in connection with various natural groupings of studies. *These groups are not mandatory.* The student may make other combinations than those suggested, provided his selection of studies fulfills one of the three options given above. In the second year many other combinations are possible. The time schedule, however, is arranged primarily to fit the combinations recommended. The days and hours at which each study is taught may be found by looking up that study on pages 113 to 185. The title of a group indicates the chief studies of that group. For the work of the first-year student, groups 1 to 6 recommend a complete curriculum. Groups 7 to 14 name only one or two first-year studies, it being understood that the remaining studies of the first year will be chosen as recommended in some one of the first six groups.

STUDY GROUPS

1. *Greek-Latin.* First year: Greek 1 or 7, 8, 9; Latin 1, 2, 3; English 1; and either 6 hours in (c) or 3 hours in (c) and 3 hours in (d). Second year: Greek 7, 8, 9, or 10, 11, 12; Latin 4, 5, 6. This group corresponds to the former Classical or Arts Course. Before choosing the 3 hours in (d) read groups 7 to 12. Before choosing the work in (c) read groups 4 to 6.

2. *Latin-Modern Language.* First year: Latin 1, 2, 3; French 1 or 2, or German 1 or 4, or Spanish 1 or 2; English 1; and either 6 hours in (c) or 3 hours in (c) and 3 hours in (d). Second year: Latin 4, 5, 6; French or German, or Spanish, continued. This group corresponds in general to the Latin-Philosophy Course. Before choosing the 3 hours in (d) read groups 7 to 12. Before choosing the work in (c) read groups 4 to 6.

3. *Modern Language.* Substitute two modern languages for Greek and Latin in group 1 above. *Not more than one new language should be begun in the first year.* The student who offers but one language for admission and who does not desire to continue that language in the University should follow the arrangement of language studies suggested in the next group. This group corresponds in general to the former Modern Language-Philosophy Course. Before choosing the work in (d) read groups 7 to 12. Before choosing the work in (c) read groups 4 to 6.

4. *General Science*. First year: German 1 or 4, or French 1 or 2; Chemistry 1; Mathematics 21, 22, 23; English 1; 3 hours in (d). Second year: Continue Chemistry and one other study of the first year; add a second modern language and one of the following: Physics 2; Botany 21, 22, 23; Physiology 1; Zoology 1; Geology 17; Astronomy 1. This group corresponds in general to the former Course in Science. It also opens the way to a thorough professional course in Chemistry. Before choosing the work in (d) read groups 7 to 12.

5. *Mathematics-Physics-Astronomy*. First year: Mathematics 31, 32, 33, 24; French 1 or 2, or German 1 or 4; English 1; 3 hours in (d). Second year: Mathematics 41, 42, 43; Physics 2, Chemistry 1; English and a second modern language. Third year: Astronomy 1 and 2. Instead of Mathematics 31, 32, 33, 24 in the first year, Chemistry 1 and Mathematics 21, 22, 23, may be chosen, to be followed by Mathematics 28 in the second year. This group emphasizes the sciences named in the title. Before choosing the work in (d) read groups 7 to 12.

6. *Biological Sciences*. First year: French 1 or 2, or German 1 or 4; Chemistry 1; Botany 21, 22, 23, or Zoology 1; English 1; 3 hours in (d). Second year: Botany; Zoology; Physiology 1, or Physics 11, or Geology 17; and a second modern language. This group corresponds to the former Course Preparatory to Medicine. Before choosing the work in (d) read groups 7 to 12.

7. *Economics-History*. First year: Include European History 1, or Economics 1 or 2, 3, 4. Second year: Include American History 1, and the subject named above not taken in the first year, continuing the other. This group corresponds to the former English Philosophy Course and Course Preparatory to Law and Journalism.

8. *History-Political Science-Administration*. First year: Include American History 1, or European History 1 or 14. Second year: Include Political Science 1 or Economics 1 and the subject named above not taken in the first year. European History 4 should be taken later. The student who has not a reading command of French or German should begin French or German not later than the second year, continuing the study during two years. This group corresponds to the former Course in Administration. It opens the way to a thorough preparation for law or the public service.

9. *Commerce-Law*. First year: Include German 1 or 4, and Economic 1. Second year: Include Economics, and American History 1 or Elementary Law. This group corresponds to the former Course in Commerce and opens the way to a thorough preparation for a business career.

10. *Sociology-Philosophy*. First year: Include Economics 2, 3, 4. Second year: Include Sociology, Philosophy 15, 16, 17 and one of the following: American History 1, European History 1, Economics 1 or 5, 6, 7. This group emphasizes the studies regarded as essential in preparation for certain important forms of municipal and social service.

11. *Philosophy-Education*. First year: Include Philosophy 18, 19. Second year: Include Philosophy 20, 21 and Education 1, 2, or 3. This group corresponds to the former Course in Education, opening the way to a thorough study either of philosophy, or of educational problems.

12. *General Literature*. Continue both languages offered for admission, begin a third language in the second year and a fourth in the third year. Include English 7 and European History 14 in the work of the first two years, and take Philosophy 15, 16, 17, or 18, 19, in second or third year.

13. *General Philology*. Greek if not offered for admission should be begun in the first year, and Latin continued. Second year: Include English and German 1 or 4. Note prerequisites for courses 14, 15, in French; 14 to 21 in Germanic languages; 19, 20, 21 in Greek; 12 to 25 in Latin.

NOTICE TO THE CLASS OF 1905

Members of the class of 1905 are required* to complete their respective Courses as given in the catalogue of June, 1901, up to the beginning of the second year, and in addition 135 term hours according to the new requirements, including at least 9 term hours in a study in group (d) unless the student has already completed that amount in a study in that group; the degree to be B. A.; or, on request of the student filed before June 1, 1905, the degree of B. Ph. or B. Sc., for which the student has been previously enrolled; provided that no student will be recommended for the degree of B. Sc. unless he shall

have completed at least 60 term hours in Sciences and Mathematics before the Commencement of June, 1905.

THE GRADUATE SCHOOL.

ORGANIZATION.

In order better to meet the rapidly increasing demands made by graduates of Ohio Colleges upon the University for graduate instruction, the Faculty of the College of Arts, Philosophy and Science has recently reorganized the scheme of graduate work. The object of the present plan is to emphasize and utilize in greater degree the facilities which the University affords for advanced students and to secure a more effective and systematic arrangement and supervision of the higher work. Whereas the graduate courses and instruction are organically within the College of Arts, Philosophy and Science, the supervision and administration of all matters connected with the graduate work has been lodged in an Administrative Board, consisting of the Dean and four other members chosen from the Faculty. The Chairman of the Administrative Board is Professor George W. Knight, to whom all communications should be addressed.

ADMISSION

Registration as a student in the Graduate School is open to all graduates of the College of Arts, Philosophy and Science of this University, and to graduates of other colleges of this University, or of other universities or colleges who satisfy the Administrative Board that they are qualified to pursue with profit the work here offered in the lines of study which they wish to carry on.

Graduates of institutions of which the undergraduate courses of study are not substantially equivalent to the course prescribed in this college for the bachelor's degree will be required to do an additional amount of undergraduate work, or to prolong their term of residence, before being admitted to full candidacy for a higher degree.

Bachelors of this College or of other institutions who do not wish to become candidates for a higher degree may be admitted as special graduate students.

Application for admission as a graduate student should be addressed to the Chairman of the Administrative Board of the Graduate School. Full details should be forwarded of the candidate's previous course of study, the degree desired, and the special preparation already had in the major and minor subjects to be pursued.

As the first question to be decided is whether the degree already taken by the applicant is substantially the equivalent of the degree given in this College, full information on this point is required. This should include a general statement of the character of the course pursued, with special reference to the amount of mathematics, science and the languages, including English. Blank forms of application may be obtained from the Registrar of the University.

The second question touches the qualifications of the applicant to enter upon advanced work in the special departments of study in which he desires to work. In order to determine this, a detailed statement is necessary of the previous course of study in the major and minor subjects which the applicant desires to pursue. Official evidence of the above statements must be submitted before the applicant is admitted to full registration.

No graduate student will be registered as a candidate for a higher degree later than October first of the academic year in which he seeks a degree.

COURSE OF INSTRUCTION

For Candidates for Higher Degrees. Unlike the curriculum for undergraduates, the work of candidates for higher degrees is not confined to specific courses of instruction regularly offered in the College. Each student chooses a major study, and one or two minor studies, which must be approved by the

Administrative Board before he enters upon his work. This may consist of attendance upon specified courses or of private research or reading and report thereon. The professors in charge of the studies chosen constitute a special committee, the professor in charge of the major study being the chairman, to arrange the details of the work comprising the major and minor studies, to supervise the work of the student, to examine and pass judgment on the thesis and to conduct the final examination.

Upon the completion of the prescribed course a final examination upon the entire work undertaken for the degree is held under the direction of the special committee, except that at the option of the committee the examination upon the minor or minors may be held whenever such minor or minors are completed.

A thesis upon some subject within the field of the major study is required of all candidates for the doctor's degree; and is also required of all candidates for the master's degree unless waived in individual cases by the Administrative Board on the recommendation of the special committee in charge of the candidate's work.

With the approval of the Administrative Board a candidate for a higher degree may elect specific courses, additional to the major and minor studies. For such election any course offered in the College of Arts, Philosophy and Science is open to candidates who satisfy the head of the department that they are qualified to pursue it with profit. The amount of such additional elective, if any, which the student may take must in each case be determined by the Administrative Board, and it is to be understood that such work, if allowed, will not be credited towards the degree for which the candidate is working.

For Graduate Students not Candidates for a Degree. Graduate students who are not seeking a higher degree are not required to designate major and minor studies, but may select their work with a view to the special purpose for which they are in attendance at the University. Any course of instruction announced in the College of Arts, Philosophy and Science is open for election by graduate students not candidates for a degree who satisfy the head of the department that they are qualified to pursue it with profit. But the list of elections so chosen must in each case be approved by the Administrative Board before the student enters upon his work.

Should such student subsequently desire to become a candidate for a higher degree, the Administrative Board will determine how much, if any, of the work previously done as a graduate student can be counted as a part of the major and minor studies requisite for the degree sought.

REQUIREMENTS FOR HIGHER DEGREES

The University confers two higher degrees, Master of Arts and Doctor of Philosophy, upon the completion of approved courses of resident graduate study.

The Master's Degree. The Degree of Master of Arts is open to those holding the Bachelor's degree who have been admitted to full candidacy as indicated above (see Admission, second paragraph). A residence of at least one year at this University wholly devoted to the work for the degree is required. With the consent of the committee the work of the candidates for the Master's degree may be distributed over more than one year. *The Master's degree is not conferred for study in absentia.*

A holder of the Bachelor's degree will be recommended for the degree of Master of Arts upon the completion of the prescribed term of residence, and passing a final examination in the course of study laid out for him, covering a major and one or two minor subjects approved by the Administrative Board, and unless waived by the same committee, the submission and acceptance of a thesis, on some subject within the field of the major study. The major study must be in advanced work; the minor study or studies may, with the approval of the Administrative Board, be of a more elementary character.

The subject of the Master's thesis must be chosen and approved by December 1st, and the completed thesis must be submitted not later than June 1st. A typewritten copy of the accepted thesis must be deposited with the University before the candidate will be recommended for a degree.

The Doctor's Degree. The degree of Doctor of Philosophy is open to those holding the Bachelor's degree who have been admitted to full candidacy as indicated above (see Admission, second paragraph), and who also fulfill the terms

of this and the next paragraph. At least three years of resident graduate work is required, but on approval of the Administrative Board the first year or the first two years may be spent at another university which offers equivalent graduate work.

Save in the cases of persons who come properly accredited from a graduate school of some other university no student will be enrolled as a candidate for the degree of Doctor of Philosophy until he has been in residence as a graduate student at this University for one year. Formal application for enrollment as a candidate for the degree must be made at least one year before the candidate expects to present himself for final examination. No person will be admitted to candidacy for the degree who does not possess at the time of enrollment a reading knowledge of French and German.

Each candidate for the Doctor's degree must pursue a major study and two allied minor studies, one of which may be within the same department as the major. All of them must be advanced, specialized work. The degree is intended to represent not a specified amount of work, covering a specified time, but long study and high attainment in a special field.

Each candidate is required to prepare a thesis within the field of his major study, involving an extended research or investigation and constituting an original contribution to knowledge. The thesis for the Doctor's degree is one of the most essential factors of the candidate's work, since it measures his accuracy and power of independent investigation. The preparation of an acceptable thesis will usually require the greater part of an academic year.

After the acceptance of the thesis the candidate will be examined by his special committee upon the entire work undertaken for the degree, except that at the option of the committee the examination on the minors may be held whenever such minors are completed.

Each candidate is required to have his accepted thesis printed and to deposit with the University library fifty copies to be used for exchange purposes.

The subject of the thesis for the Doctor's degree must be chosen and approved by the special committee by November 1st of the college year in which the applicant expects to take the degree. The completed thesis must be submitted not later than May 1st. The final examination will be held not later than June 1st.

THE LAKE LABORATORY

COURSES OF STUDY

ZOOLOGY AND ENTOMOLOGY.

(a) *General Zoology.* Laboratory and field course with occasional lectures and quiz, and including dissection or microscopic study of type forms, aquaria and field studies with instruction in collecting and preparing material for laboratory use and permanent collections. Special attention will be given to fishes and food of fishes. Associate Professor Landacre.

(b) *Advanced Courses.* (1) Invertebrate Morphology and (2) Comparative Anatomy of Vertebrates. (3) Embryology. Equivalent to similar courses in the University, and credit of one term may be secured. Prof. Osborn; Associate Prof. Landacre.

(c) *Entomology.* Field and laboratory course, including instruction in collecting, mounting and identifying insects in connection with studies on life history and anatomy. Prof. Osborn; Associate Prof. Hine.

(d) *Ichthyology.* Special course devoted particularly to the lake fishes, their habits and food supplies. Prof. Osborn; Associate Prof. Landacre.

(e) *Ornithology.* Special course in systematic and ecological study of birds of the region. Associate Prof. Hine.

BOTANY

(a) *General Botany.* Laboratory and field course, including the study of type forms, from the lowest to the highest orders. The course will consist of

collecting trips in the field where common species of each class are found, classification of the familiar forms and the study of the structure of interest in connection with the evolution and relationship of each group; also methods of preparation and preservation for future use. Prof. Kellerman.

(b) *Mycology*. A study of Mushrooms and Toadstools, edible and poisonous. Lectures and laboratory work; students will collect specimens, make sketches and colored drawings, and identify specimens. Prof. Kellerman.

(c) *Special Work*. Subject selected may be in Ecology; or some plant or small group in Systematic Botany. Prof. Kellerman; Mr. York.

(d) *Morphology and Taxonomy of Algae*. Field and laboratory work with occasional lectures. Prof. Kellerman.

(e) *Morphology and Taxonomy of Fungi*. Field and laboratory work with occasional lectures. Prof. Kellerman.

For courses c, d and e University credits may be secured.

PHYSIOLOGY

A course in Physiology will be offered by Prof. A. M. Bleile, provided a sufficient number apply for such work to warrant its introduction.

THE COLLEGE OF ENGINEERING

The College of Engineering offers instruction in nine fields of Engineering work.

FOUR YEAR COURSES

Architecture, Ceramics, Chemical Engineering, Civil Engineering, Electrical Engineering, Industrial Arts, Manual Training, Mechanical Engineering, Mining Engineering.

TWO YEAR COURSES

The following short courses do not lead to degrees, but students completing them are furnished with formal certificates setting forth the work they have accomplished:

Clay-working, Industrial Arts and Shopwork, Mining.

REQUIREMENTS FOR ADMISSION TO THE FOUR YEAR COURSES

Applicants to be admitted to full standing in this College must be at least seventeen years of age and must obtain credit by examination or certificate for the necessary number of units chosen from the list given below, subject to the printed restrictions; credit for thirteen units is necessary. Applicants slightly in arrears may be admitted to Freshman work subject to certain entrance conditions as set forth on page 89.

The extent and character of the work required for credit in each subject mentioned in the following list will be found on pages 65-69.

ENGLISH

A. Two units chosen from the following:

English Composition and Rhetoric.....	1 unit
English Classics	1 unit
English Literature	1 unit

HISTORY

B. Two units chosen from the following:

Civil Government.....	$\frac{1}{2}$ unit
United States History	$\frac{1}{2}$ unit
General History	1 unit
Greek and Roman History.....	$\frac{1}{2}$ unit
English History	$\frac{1}{2}$ unit

MATHEMATICS

C. Three units as follows. No conditions are permitted in Mathematics:

Algebra	$1\frac{1}{2}$ units
Geometry, Plane and Solid	$1\frac{1}{2}$ units

SCIENCE

D. Two units chosen from the following, including Physics:

Physics	1 unit
Physical Geography	$\frac{1}{2}$ unit
Botany	$\frac{1}{2}$ unit
Chemistry	1 unit
Physiology	$\frac{1}{2}$ unit
Zoology	$\frac{1}{2}$ unit
Geology	$\frac{1}{2}$ unit
Astronomy	$\frac{1}{2}$ unit

FOREIGN LANGUAGE

E. Four units chosen from the following list, or two units from this group, together with two extra units chosen from Groups A, B and D.

Latin	2 or 4 units
Greek	2 or 4 units
French	2 or 4 units
German	2 or 4 units
Spanish	2 or 4 units

ENTRANCE CONDITIONS

No applicant under twenty-one years of age will be admitted to the College of Engineering who is in arrears more than one unit. No deficiencies are allowed in Mathematics. Thus he must have 12 units out of the 13 required for unconditional admission. An applicant twenty-one years of age or over, who is deficient in foreign language training, will be admitted with this deficiency in addition to the unit permitted above.

For those who have conditions in foreign language to remove, the following arrangements will be made:

1. Those entering with a partial credit in Latin or Greek will be permitted to make good their deficiency by doing an equivalent amount of work in a modern language in the college. For this work they will receive no college credit.

2. Those twenty-one years of age or over, entering with no training in language, will be permitted to make good their deficiency by beginning a modern language in the college. For this work they will receive no college credit.

REQUIREMENTS FOR ADMISSION TO THE SHORT COURSES

Applicants must be not less than seventeen years of age, and, unless they are over twenty-one years of age, must pass examinations in *Arithmetic* and *Geography*, and must be able to write a business letter or a short theme correct in *Grammar* and *Orthography*; or they must present satisfactory certificates showing that they have successfully pursued these subjects elsewhere. In addition, each applicant under twenty-one years of age must present a letter or certificate showing that he has had at least one year's *practical experience* in some industry related to the course which he wishes to pursue.

Applicants over twenty-one years of age are admitted without examination, and without letter or certificate of practical experience.

ADMISSION TO SPECIAL STUDIES.

Students who desire to pursue special lines of work in this College and do not desire to become candidates for degrees, will be admitted on the conditions as stated on page 69.

ADMISSION TO ADVANCED STANDING

For admission to advanced standing in this College see requirements as stated on page 69.

ADMISSION TO GRADUATE WORK

For admission to graduate work in this College see statement on page 69.

COURSES OF STUDY

REQUIREMENTS

Thesis. As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of the degree sought. The subject must be filed with the President of the University (dependent upon the approval of the head of the department), on the official blank provided for the purpose, not later than December 15 of the University year in which the degree is sought. The completed thesis must be submitted to the head of the department concerned not later than the second Saturday before Commencement Day.

The accepted thesis—on standard paper—Buckeye bond $8\frac{1}{2} \times 11$ inches, medium weight—typewritten or printed, neatly bound in black cloth, gilt-lettered on first cover with the thesis title, name of author, degree sought and year of graduation—must be filed not later than the Friday preceding Commencement Day.

FIRST YEAR

The work of the first year is the same for all engineering students in courses leading to a degree.

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses.

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Mathematics (31)	5	Mathematics (32)	5	Mathematics (33)	5
Algebra.		Trigonometry.		Analytics.	
Chemistry (7)	5	Chemistry (7)	5	Chemistry (12)	4
Inorganic.		Inorganic.		Quantitative Analysis.	4
Modern Language	4	Modern Language	4	Modern Language	4
French, Ger. or Spanish.		French, Ger. or Spanish.		French, Ger. or Spanish.	
English (1)	2	English (1)	2	English (1)	2
Paragraph Writing, etc.		Paragraph Writing, etc.		Paragraph Writing, etc.	
Drawing (27)	2	Drawing (25)	1	Drawing (26)	1
Freehand.		Freehand.		Freehand.	
Drill and Gymnasium.		Drawing (32)	1	Drawing (32)	2
		Geometrical.		Lettering.	
		Drill and Gymnasium.		Drill.	

SUMMER TERM IN SHOPWORK.

Students electing courses named below are required to take Shopwork courses in the summer term as follows:

Chemical Engineering—Shopwork (7) and (11), at the close of the first or second year.

Electrical Engineering — } Two from Shopwork (4), (7) and (11), at the close of
Mechanical Engineering — } the first year.

COURSE IN ARCHITECTURE

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses:

Degree: Civil Engineer in Architecture.

FIRST YEAR

(See page 90)

SECOND YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Drawing (33)	3	Drawing (36)	5	Drawing (37)	5
Projections.		Descriptive Geom.		Shades, Shadows.	
Mathematics (41)	5	Mathematics (42)	5	Mathematics (43)	5
Calculus.		Calculus.		Calculus.	
Physics (2)	3	Physics (2)	3	Physics (2)	3
Mechanics, Heat.		Elect'y, Magnetism.		Light, Sound.	
Architecture (9)	3	Architecture (10)	3	Architecture (11)	3
History of Architecture.		History of Architecture.		History of Architecture.	
Architecture (12)	2	Architecture (13)	2	Architecture (14)	2
Detail Drawing.		Detail Drawing.		Detail Drawing.	
Drawing (14)	2				
Pen Drawing.					
Drill and Gymnasium.		Drill and Gymnasium.		Military Drill.	

THIRD YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Mathematics (71)	5	Mathematics (72)	5	Mathematics (73)	5
Statics.		Strength Mat'ls, Kinet's	5	Kinetics; Hydraulics.	
Architecture (16)	4	Architecture (16)	2	Architecture (17)	4
Designing.		Designing.		Designing.	
Drawing (7)	2	Drawing (40)	2	Drawing (41)	2
Photography.		Clay Modeling.		Clay Modeling.	
Architecture (22)	2	Architecture (23)	4		
Architectural Composition.		Designing.			
Architecture (5)	3	Civil Eng. (6)	4	Civil Eng. (19)	5
Decorations, etc.		Stereotomy.		Trusses.	
English (3)	2	English (3)	2	English (3)	2
Expository Writing.		Brief-Making, etc.		Brief-Making, etc.	

FOURTH YEAR

Architecture (18)	4	Architecture (4)	2	Architecture (6)	4
Designing.		Specifications.		Estimates and Supt.	
Civil Eng. (15)	5	Architecture (7)	5	Architecture (19)	4
Masonry.		Heating, Vent., etc.		Designing.	
Mech. Eng. (23)	4	Architecture (21)	2	Architecture (20)	5
Materials of Const.		Designing.		Thesis.	
Geology (2)	5	Geology (6)	3	Civil Eng. (21)	3
General.		Economic.		Surveying.	
		Drawing (18)	3	Drawing (19)	2
		Color Work.		Color Work.	
		Civil Eng. (26)	3		
		Steel Construction.			

THESES SEE PAGE 90

COURSE IN CERAMICS

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses.

Degree: Engineer of Mines in Ceramics.

FIRST YEAR

(See page 90)

SECOND YEAR

Drawing (33)	3	Drawing (34)	3	Drawing (35)	3
Projections.		Descriptive Geom.		Shades, Shadows.	
Mathematics (41)	5	Mathematics (42)	5	Mathematics (43)	5
Calculus.		Calculus.		Calculus.	
Physics (2)	3	Physics (2)	3	Physics (2)	3
Mechanics, Heat.		Elect'y, Magnetism.		Light, Sound.	
Physics (3)	2	Physics (3)	2	Physics (3)	2
Problems.		Problems.		Problems.	
Ceramics (1)	5	Ceramics (2)	5	Ceramics (3)	5
Laboratory.		Laboratory.		Laboratory.	
Drill and Gymnasium.		Drill and Gymnasium.		Military Drill.	

THIRD YEAR

Mathematics (71)	5	Mathematics (72)	5	Mathematics (73)	5
Statics.		Strength Mat'ls, Kinet's.		Kinetics, Hydraulics.	
Ceramics (4)	5	Ceramics (5)	5	Ceramics (6)	5
Raw Materials.		Clay Products.		Clay Products.	
Mine Eng. (4)	5	Ceramics (7)	5	Metallurgy (2)	3
Mine Surveying.		Adv. Chem. Lab.		Mineralogy.	
English (2)	2	English (3)	2	English (3)	2
Expository Writing.		Brief-Making, etc.		Brief-Making, etc.	
				Shopwork (11)	3
				Forging.	

FOURTH YEAR

Ceramics (9)	5	Ceramics (10)	5	*Ceramics (11)	5
Manf. of Bodies.		Glasses and Glazes.		Enamels, Colors.	
Metallurgy (4)	5	Ceramics (12)	5	*Ceramics (13)	5
Fuels and Iron.		Cement.		Cement Laboratory.	
Shopwork (4)	3	Ceramics (17)	4	Ceramics (15)	5
Chipping and Filing.		Ceramic Const.		Thesis Work.	
Geology (2)	5	Geology (6)	3	Mech. Eng. (36)	5
General.		Economic.		Laboratory.	
				Drawing (7)	2
				Photography.	

THESES—See page 90

*Students are to elect Ceramics (11) or (13).

COURSE IN CHEMICAL ENGINEERING

Degree: Bachelor of Science in Chemical Engineering.

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

(See page 90)

Shopwork Courses (7) 3 and (11) 3 are to be taken in Summer Term, at the end of the First or Second Year.

SECOND YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Chemistry (20)	4	Chemistry (20)	4	Chemistry (20)	4
Quantitative.		Quantitative.		Quantitative.	
Chemistry (21)	2	Chemistry (21)	2	Chemistry (21)	2
Inorganic.		Inorganic.		Inorganic.	
Physics (2)	3	Physics (2)	3	Physics (2)	3
Mechanics, Heat.		Elect'y, Magnetism.		Light, Sound.	
Mathematics (41)	5	Mathematics (42)	5	Mathematics (43)	5
Calculus.		Calculus.		Calculus.	
Drawing (33)	3	Drawing (34)	3	Chemistry (40)	1
Projections.		Descriptive Geom.		Stoichiometry.	
		Chemistry (40)	1	Metallurgy (2)	3
		Stoichiometry.		Mineralogy.	
Drill and Gymnasium.		Drill and Gymnasium.		Military Drill.	

THIRD YEAR

Chemistry (8)	5	Chemistry (9)	5	*Chemistry (9)	5
Organic.		Organic.		Organic.	
Metallurgy (5)	5	Metallurgy (6)	5	*Metallurgy (5)	5
Laboratory.		Assaying.		Laboratory.	
English (2)	2	English (3)	2	English (3)	2
Expository Writing.		Brief-Making, etc.		Brief-Making, etc.	
Mathematics (71)	5	Mathematics (72)	5	Mathematics (73)	5
Statics.		Strength Mat'ls, Kinet's.		Kinetics, Hydraulics.	
Drawing (21)	2	Drawing (22)	2	Drawing (23)	2
Technical.		Technical.		Technical.	
				Mech. Eng. (32)	5
				Power Plants.	

*Students are to elect either Chemistry (9) 5, or Metallurgy (5) 5.

FOURTH YEAR

Chemistry (32)	4	Chemistry (32)	4	Chemistry (15)	4
Industrial.		Industrial.		Sanitary.	
Mech. Eng. (18)	5	Mech. Eng. (18)	5	Mech. Eng. (19)	5
Machine Design.		Machine Design.		Machine Design.	
Elec. Eng. (6)	2	Chemistry (30)	3	Chemistry (30)	3
Lectures.		Physical.		Physical.	
Elec. Eng. (7)	2	*Mech. Eng. (35)	5	Ceramics (16)	5
Laboratory.		Laboratory.		General Principles.	
*Metallurgy (4)	5	*Metallurgy (4)	5		
Fuels and Iron.		General.			
*Ag. Chemistry (4)	5	*Ag. Chemistry (4)	5		
Laboratory.		Laboratory.			
*Chemistry (35)	3				
Rare Elements.					

*Students are to elect Metallurgy (4), two terms; Agricultural Chemistry (4), two terms; Metallurgy (4) first term, and Mechanical Engineering (35); or Chemistry (35) first term, and Mechanical Engineering (35) or Agricultural Chemistry (4) second term.

THESIS—See page 90

COURSE IN CIVIL ENGINEERING

Degree: Civil Engineer.

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

(See page 90)

SECOND YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Drawing (33)	3	Drawing (36)	5	Drawing (35)	3
Projections.		Descriptive Geom.		Shades, Shadows.	
Mathematics (41)	5	Mathematics (42)	5	Mathematics (43)	5
Calculus.		Calculus.		Calculus.	
Physics (2)	3	Physics (2)	3	Physics (2)	3
Mechanics, Heat.		Elect'y, Magnetism.		Light, Sound.	
Civil Eng. (1)	6	Civil Eng. (4)	4	Civil Eng. (2)	6
Land Surveying.		Topog. Drawing.		Railroad Surveying.	
Drill and Gymnasium.		Drill and Gymnasium.		Military Drill.	

SUMMER COURSE

Civil Engineering (22) 4 weeks, of 6 days per week. Field work in land and railroad surveying.

THIRD YEAR

Mathematics (71)	5	Mathematics (72)	5	Mathematics (73)	5
Statics.		Strength Mat'ls; Kinet's.		Kinetics; Hydraulics.	
Civil Eng. (3)	4	Civil Eng. (24)	5	Civil Eng. (7)	5
Topog. Surveying.		C. E. Drawing.		Bridge Stresses.	
Civil Eng. (16)	5	Civil Eng. (6)	4	Drawing (7)	2
Roads and Streets.		Stereotomy.		Photography.	
Astronomy (4)	3	Astronomy (6)	3	Astronomy (6)	4
Mathematical.		Mathematical.		Mathematical.	
English (2)	2	English (3)	2	English (3)	2
Expository Writing.		Brief-Making, etc.		Brief-Making, etc.	

SUMMER COURSE

Civil Engineering (23) 4 weeks, of 6 days per week. Field work in railroad and topographical surveying.

FOURTH YEAR

Civil Eng. (8)	5	*Civil Eng. (17)	5	Civil Eng. (18)	5
Bridge Designing.		Railways.		Water Supply.	
		*Civil Eng. (25)	5		
		Adv. Bridge Work.			
Civil Eng. (15)	5	Civil Eng. (14)	2	Civil Eng. (10)	5
Masonry.		Cement Testing.		Sanitary Eng.	
Elec. Eng. (6)	2	Elec. Eng. (6 and 7)	4		
Lectures.		Lectures and Lab.			
		Mech. Eng. (17)	3	Mech. Eng. (25)	5
		Laboratory.		Laboratory.	
Geology (2)	5	Geology (6)	3		
General.		Economic.			

THESIS—See page 90

*Students are to elect either C. E. (17) or C. E. (25).

COURSE IN ELECTRICAL ENGINEERING

Degree: Mechanical Engineer in Electrical Engineering.

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

(See page 90)

SUMMER TERM

Students are required to take two of the following Courses in Shopwork in the Summer Term at close of First Year: Shopwork (4), (7) and (11).

CATALOGUE

SECOND YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Drawing (33)	3	Drawing (34)	3	Drawing (35)	3
Projections.		Descriptive Geom.		Shades, Shadows.	
Mathematics (41)	5	Mathematics (42)	5	Mathematics (43)	5
Calculus.		Calculus.		Calculus.	
Physics (2)	3	Physics (2)	3	Physics (2)	3
Mechanics, Heat.		Elect'y, Magnetism.		Light, Sound.	
Physics (3)	2	Physics (3)	2	Physics (3)	2
Problems.		Problems.		Problems.	
Shopwork (*)	3	Shopwork (13)	3	Physics (5)	4
		Machine Work.		Laboratory.	
English (2)	2	English (3)	2	English (3)	2
Expository Writing.		Brief-Making, etc.		Brief-Making, etc.	
Drill and Gymnasium.		Drill and Gymnasium.		Military Drill.	

*Students are required to take the Shopwork not assigned them in the Summer Term, i. e., Shopwork (4), (7) or (11).

THIRD YEAR

Mathematics (71)	5	Mathematics (72)	5	Mathematics (73)	5
Statics.		Strength Mat'ls, Kinet's.		Kinetics, Hydraulics.	
Physics (6)	5	Physics (6)	5	Mech. Eng. (32)	5
Laboratory.		Laboratory.		Power Plants.	
Physics (4)	3	Mech. Eng. (3)	5	Mech. Eng. (28)	2
Elect'y, Magnetism.		Mechanism.		Laboratory.	
Shopwork (14)	3	Elec. Eng. (8)	4	Elec. Eng. (9)	4
Machine Work.		D. C. Machinery.		Laboratory.	
Drawing (5)	3			Ind. Arts (7)	3
Technical.				Mach. Design.	

FOURTH YEAR

Elec. Eng. (10)	3	Elec. Eng. (10)	3	Elec. Eng. (13)	5
A. C. Machinery.		A. C. Machinery.		Applications.	
Elec. Eng. (11)	3	Elec. Eng. (11)	3	Elec. Eng. (11)	3
Laboratory.		Laboratory.		Laboratory.	
Mech. Eng. (33)	5	Elec. Eng. (14)	4	Elec. Eng. (14)	4
Engines and Boilers.		Designing.		Designing.	
Mech. Eng. (29)	3	Elec. Eng. (12)	2		
Laboratory.		Transmission.			
		Mech. Eng. (30)	2		
		Laboratory.			
*Elective	3-5	*Elective	3-5	*Elective	3-5

THESIS—See page 90

*Subject to the approval of the Professor of Electrical Engineering.

COURSE IN INDUSTRIAL ARTS

Degree: Bachelor of Science in Industrial Arts.

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

(See page 90)

SECOND YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Drawing (33)	3	Drawing (34)	3	Drawing (35)	3
Projections.		Descriptive Geom.		Shades, Shadows.	
Physics (2)	3	Physics (2)	3	Physics (2)	3
Mechanics, Heat.		Elect'y, Magnetism.		Light, Sound.	
Physics (3)	2	Physics (3)	2	Physics (3)	2
Problems.		Problems.		Problems.	
Shopwork (7)	3	Shopwork (9)	3	Shopwork (8)	3
Woodwork.		Adv. Pattern Making.		Cabinet Work.	
Shopwork (3)	3	Shopwork (11)	3	Shopwork (12)	3
Foundry.		Forging.		Adv. Forging.	
English (2)	2	English (3)	2	English (3)	2
Expository Writing.		Brief-Making, etc.		Brief-Making, etc.	
Economics (2)	3	Economics (3)	3	Economics (4)	3
Industrial Society.		Indus. and Fin. Hist.		Transportation Problems.	
Drill and Gymnasium.		Drill and Gymnasium.		Military Drill.	

THIRD YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Drawing (5)	3	Industrial Arts (2)	3	Industrial Arts (2)	3
Technical.		Designing.		Designing.	
Industrial Arts (1)	3	Industrial Arts (1)	2	Industrial Arts (1)	3
Tools and Machines.		Tools and Machines.		Tools and Machines.	
Shopwork (4)	3	Shopwork (13)	3	Shopwork (14)	3
Chipping and Filing.		Machine Work.		Machine Work.	
Metallurgy (4)	5	Metallurgy (4)	2	Mech. Eng. (32)	5
Fuels and Iron.		Steel.		Power Plants.	
Economics (1)	3	Economics (1)	3	Economics (1)	3
Elem. of Polit. Econ.		Elem. of Polit. Econ.		Elem. of Polit. Econ.	
		Civil Eng. (27)	3		
		Timber and Masonry.			

FOURTH YEAR

Shopwork (15)	3	Shopwork (16)	3	Shopwork (17)	3
Adv. Mach. Work.		Adv. Mach. Work.		Adv. Mach. Work.	
Elec. Eng. (6)	2	Elec. Eng. (6)	2	Civil Eng. (21)	3
Lectures.		Lectures.		Surveying.	
Elec. Eng. (7)	2	Elec. Eng. (7)	2		
Laboratory.		Laboratory.			
Industrial Arts (3)	3	Industrial Arts (3)	3	Industrial Arts (3)	3
Shop Equipment.		Shop Appliances.		Shop Management.	
Industrial Arts (4)	3	Industrial Arts (4)	3	Industrial Arts (4)	3
Adv. Designing.		Adv. Designing.		Adv. Designing.	
Mech. Eng. (12)	2	Mech. Eng. (29)	2	Mech. Eng. (30)	2
Laboratory.		Laboratory.		Laboratory.	
Economics (6)	2	Economics (6)	2	Economics (7)	2
Immigration, Money.		Railroads, Crises, etc.		Labor and Capital.	

THESIS—See page 90

COURSE IN MANUAL TRAINING

Degree: Bachelor of Science in Industrial Arts.

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

(See page 90)

SECOND YEAR

Drawing (33)	3	Drawing (34)	3	Drawing (35)	3
Projections.		Descriptive Geom.		Shades, Shadows.	
Physics (2)	3	Physics (2)	3	Physics (2)	3
Mechanics, Heat.		Elect'y, Magnetism.		Light, Sound.	
Physics (3)	2	Physics (3)	2	Physics (3)	2
Problems.		Problems.		Problems.	
Shopwork (7)	3	Shopwork (9)	3	Shopwork (8)	3
Woodwork.		Adv. Pattern Making.		Cabinet Work.	
Shopwork (3)	3	Shopwork (11)	3	Shopwork (12)	3
Foundry.		Forging.		Adv. Forging.	
English (2)	2	English (3)	2	English (3)	2
Expository Writing.		Brief-Making, etc.		Brief-Making, etc.	
Education (1)	3	Education (1)	3	Education (1)	3
Elem. Psychology.		Elem. Psychology.		Elem. Psychology.	
Drill and Gymnasium.		Drill and Gymnasium.		Military Drill.	

THIRD YEAR

Drawing (5)	3	Industrial Arts (2)	3	Industrial Arts (2)	3
Technical.		Designing.		Designing.	
Industrial Arts (1)	3	Industrial Arts (1)	3	Industrial Arts (1)	3
Tools and Machines.		Tools and Machines.		Tools and Machines.	
Shopwork (4)	3	Shopwork (13)	3	Shopwork (14)	3
Chipping, Filing.		Machine Work.		Machine Work.	
History (1)	3	History (1)	3	History (1)	3
U. S. Political.		U. S. Political.		U. S. Political.	
*Chemistry (20)	4	*Chemistry (20)	4	*Chemistry (20)	4
Quantitative.		Quantitative.		Quantitative.	
*Chemistry (21)	2	*Chemistry (21)	2	*Chemistry (21)	2
Physical.		Physical.		Physical.	
*Physics (5)	5	*Physics (5)	5	*Physics (5)	5
Laboratory.		Laboratory.		Laboratory.	

* Students take either Chemistry (20) and (21) or Physics (5).

CATALOGUE

FOURTH YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Shopwork (15)	3	Shopwork (16)	3	Mech. Eng. (32)	5
Adv. Mach. Work.		Adv. Mach. Work.		Power Plants.	
Elec. Eng. (6)	2	Elec. Eng. (6)	2	Mech. Eng. (28)	2
Lectures.		Lectures.		Laboratory.	
Elec. Eng. (7)	2	Elec. Eng. (7)	2		
Laboratory.		Laboratory.			
Education (5)	3	Education (5)	3	Education (5)	3
Science of Educ.		Science of Educ.		Science of Educ.	
Polit. Science (1)	3				
Polit. Inst. of U. S.					
Electives	2-5	Electives	5-7	Electives	5-7

THESIS—See page 90

COURSE IN MECHANICAL ENGINEERING

Degree: Mechanical Engineer.

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

(See page 90)

SUMMER TERM

Students are required to take two of the following Courses in Shopwork in the Summer Term at the close of the First Year: Shopwork (4), (7) and (11).

SECOND YEAR

Drawing (33)	3	Drawing (34)	3	Drawing (35)	3
Projections.		Descriptive Geom.		Shades, Shadows.	
Mathematics (41)	5	Mathematics (42)	5	Mathematics (43)	5
Calculus.		Calculus.		Calculus.	
Physics (2)	3	Physics (2)	3	Physics (3)	3
Mechanics, Heat.		Elect'y Magnetism.		Light, Sound.	
Shopwork (3)	2	Physics (7)	2	Physics (7)	2
Foundry.		Laboratory.		Laboratory.	
English (2)	2	English (3)	2	English (3)	2
Expository Writing.		Brief-Making, etc.		Brief-Making, etc.	
Shopwork (*)	3	Shopwork (*)	3	Shopwork (13)	3
				Machine Work.	
				Military Drill.	
Drill and Gymnasium.		Drill and Gymnasium.			

*Students are required to satisfactorily pursue before the Third Term, Second Year, Shopwork Courses (4), (7), (9) and (11). In the First Term they will be assigned one of the two subjects not yet taken successfully, and in the Second Term the other; but Shopwork (7) must precede Shopwork (9).

THIRD YEAR

Mathematics (71)	5	Mathematics (72)	5	Mathematics (73)	5
Statics.		Strength Mat'ls; Kinet's.		Kinetics; Hydraulics.	
Mech. Eng. (12)	2	Mech. Eng. (3)	5	Mech. Eng. (8)	2
Laboratory.		Mechanism.		Mechanism.	
Drawing (5)	3	Civil Eng. (27)	3	Drawing (7)	2
Technical.		Timber, Masonry.		Photography.	
Metallurgy (4)	5	Metallurgy (4)	2	Civil Eng. (19)	5
Fuels and Iron.		Steel.		Trusses.	
Shopwork (14)		Shopwork (15)	4	Mech. Eng. (32)	5
Machine Work.		Adv. Mach. Work.		Power Plants.	
Mathematics (11)	1				
Diff. Equations.					

FOURTH YEAR

Mech. Eng. (33)	5	Mech. Eng. (34)	5	Mech. Eng. (21)	5
Engines and Boilers.		Thermodynamics.		Thesis.	
Mech. Eng. (27)	5	Mech. Eng. (14)	4	Mech. Eng. (15)	3
Laboratory.		Laboratory.		Laboratory.	
Mech. Eng. (18)	5	Mech. Eng. (18)	5	Mech. Eng. (19)	5
Machine Design.		Machine Design.		Machine Design.	
Elec. Eng. (6)	2	Elec. Eng. (6)	2	Industrial Arts (5)	3
Lectures.		Lectures.		Shop Appliances.	
Elec. Eng. (7)	2	Elec. Eng. (7)	2	Mech. Eng. (31)	3
Laboratory.		Laboratory.		Hydraulic Machinery.	

THESIS—See page 90

COURSE IN MINING ENGINEERING

Degree: Engineer of Mines.

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement in Courses:

FIRST YEAR

(See page 90.)

SECOND YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Drawing (33)	3	Drawing (34)	3	Drawing (35)	3
Projections.		Descriptive Geom.		Shades, Shadows.	
Mathematics (41)	5	Mathematics (42)	5	Mathematics (43)	5
Calculus.		Calculus.		Calculus.	
Physics (2)	3	Physics (2)	3	Physics (2)	3
Mechanics, Heat.		Elect'y, Magnetism.		Light, Sound.	
Metallurgy (5)	5	Metallurgy (5)	5	Metallurgy (5)	5
Laboratory.		Laboratory.		Laboratory.	
Shopwork (7)	2	Shopwork (11)	2	Metallurgy (2)	3
Woodwork.		Forging.		Mineralogy.	
Drill and Gymnasium.		Drill and Gymnasium.		Military Drill.	

THIRD YEAR

Mathematics (71)	5	Mathematics (72)	5	Mathematics (73)	5
Statics.		Strength Mat'ls; Kinet's.		Kinetics; Hydraulics.	
Metallurgy (4)	5	Metallurgy (4)	5	Metallurgy (3)	5
Fuels and Iron.		General.		Deter. Mineralogy.	
Mine Eng. (4)	5	Metallurgy (6)	5	Civil Eng. (19)	5
Mine Surveying.		Assaying.		Trusses.	
English (2)	2	English (3)	2	English (3)	2
Expository Writing.		Brief-Making, etc.		Brief-Making, etc.	
		Mine Eng. (7)	1		
		Surveying.			

FOURTH YEAR

Mine Eng. (5)	5	Mine Eng. (5)	5	Mine Eng. (5)	5
Mine Engineering.		Mine Engineering.		Mine Engineering.	
Geology. (2)	5	Geology (6)	3	Mech. Eng. (36)	5
General.		Economic.		Laboratory.	
Metallurgy (8)	2	Metallurgy (7)	3	Mine Eng. (6)	5
Ore Dressing.		Metal. Construction.		Plans and Specifications.	
Elec. Eng. (6)	2	Elec. Eng. ((6)	2	Drawing (7)	2
Lectures.		Lectures.		Photography.	
Elec. Eng. (7)	2	Elec. Eng. (7)	2		
Laboratory.		Laboratory.			
		Geology (7)	2		
		Petrography.			

THESIS—See page 90.

SHORT COURSES

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses.

SHORT COURSE IN CLAYWORKING

FIRST YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Chemistry (3)	5	Chemistry (3)	5	Chemistry (12a)	5
Inorganic.		Inorganic.		Analytical.	
Physics (1)	5	Physics (1)	5	Geology (1)	5
Elementary.		Elementary.		Phys. Geography.	
Mathematics (1)	5	Mathematics (3a)	5	Shopwork (11)	3
Algebra.		Geometry.		Forging.	
				Shopwork (4)	2
				Chipping, Filing.	
Drill and Gymnasium.		Drill and Gymnasium.		Military Drill.	

CATALOGUE

SECOND YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Ceramics (1)	5	Ceramics (2)	5	Ceramics (3)	5
Chem. Analysis.		Analysis of Clays.		Analysis of Glazes.	
Ceramics (4)	5	Ceramics (5)	5	Ceramics (6)	5
Raw Materials.		Clay Products.		Clay Products.	
Geology (2)	5	Geology (6)	3	Drawing (11)	5
General.		Economic.		Mechanical.	
		Drawing (27)	2		
		Freehand.			
Drill and Gymnasium.		Drill and Gymnasium.		Military Drill.	

SHORT COURSE IN INDUSTRIAL ARTS

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses.

Drawing (24)	1	Drawing (25)	1	Drawing (26)	1
Freehand.		Freehand.		Freehand.	
Drawing (2)	3	Drawing (38)	3	Drawing (39)	3
Lettering.		Projections.		Drafting.	
Mathematics (2)	5	Mathematics (2)	5	Mathematics (2)	5
Algebra.		Algebra.		Algebra.	
Mathematics (3)	5	Mathematics (13)	5	Mathematics (14)	5
Plane Geometry.		Space Geometry.		Trigonometry.	
Shopwork (7)	3	Shopwork (9)	3	Shopwork (11)	3
Pattern Making.		Adv. Pattern Making.		Forging.	
Drill and Gymnasium.		Drill and Gymnasium.		Military Drill.	

SECOND YEAR

Industrial Arts (8)	3	Drawing (34)	3	Drawing (35)	3
Machine Drawing.		Descriptive Geom.		Shades, Shadows.	
Industrial Arts (1)	3	Industrial Arts (1)	3	Industrial Arts (1)	3
Tools, Machines.		Tools, Machines.		Tools, Machines.	
Physics (1)	5	Physics (1)	5	Geology (1)	5
Elementary.		Elementary.		Phys. Geography.	
Shopwork (4)	3	Shopwork (13)	3	Shopwork (14)	3
Chipping, Filing.		Machine Work.		Adv. Machine Work.	
Shopwork (3)	2	Industrial Arts (2)	3	Industrial Arts (2)	3
Foundry.		Designing.		Designing.	
Drill and Gymnasium.		Drill and Gymnasium.		Military Drill.	

SHORT COURSE IN MINING

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Mathematics (2)	5	Mathematics (2)	5	Mathematics (2)	5
Algebra.		Algebra.		Algebra.	
Mathematics (3)	5	Mathematics (13)	5	Mathematics (14)	5
Geometry.		Space Geometry.		Trigonometry.	
Physics (1)	5	Physics (1)	5	Geology (1)	5
Elementary.		Elementary.		Phys. Geography.	
Drill and Gymnasium.		Drill and Gymnasium.		Military Drill.	

SECOND YEAR

Drawing (2)	3	Drawing (38)	3	Drawing (39)	3
Lettering.		Projections.		Drafting.	
Drawing (27)	2	Geology (4)	5	Shopwork (11)	3
Freehand.		Elementary.		Forging.	
Chemistry (3)	5	Chemistry (3)	5	Metallurgy (9)	5
Inorganic.		Inorganic.		Mineral Chemistry.	
Mine Eng. (1)	5	Mine Eng. (2)	5	Mine Eng. (3)	5
Mine Surveying.		Ventilat. Haulage.		Mine Operating.	
		Mine Eng. (7)	1		
		Surveying.			
Drill and Gymnasium.		Drill and Gymnasium.		Military Drill.	

THE COLLEGE OF LAW

The College of Law offers two courses of study:
 The Undergraduate Course.
 The Graduate Course.

REQUIREMENTS FOR ADMISSION

Applicants for admission to the College of Law must be at least eighteen years of age.

FOR STUDENTS WHO ARE CANDIDATES FOR A DEGREE.

For *unconditional* admission the student must be prepared to offer the following:

A. Two units chosen from the following:

English Composition and Rhetoric.....	1 unit
English Classics	1 unit
English Literature	1 unit

B. Two units chosen from the following:

Civil Government	$\frac{1}{2}$ unit
United States History	$\frac{1}{2}$ unit
General History	1 unit
Greek and Roman History	$\frac{1}{2}$ unit
English History	$\frac{1}{2}$ unit

C. Three units as follows:

(9) Algebra	$1\frac{1}{2}$ units
(10) Plane and Solid Geometry.....	$1\frac{1}{2}$ units

D. Two units chosen from the following, including Physics:

Physics	1 unit
Physical Geography	$\frac{1}{2}$ unit
Botany	$\frac{1}{2}$ unit
Chemistry	1 unit
Physiology	$\frac{1}{2}$ unit
Zoology	$\frac{1}{2}$ unit
Geology	$\frac{1}{2}$ unit

E. Four units chosen from the following; or two extra units chosen from the preceding groups, and two units from the following:

Latin	2 or 4 units
Greek	2 or 4 units
German	2 or 4 units
French	2 or 4 units
Spanish	2 or 4 units

The extent and character of the work required in each subject mentioned above is to be found on pages 65-69.

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F. In addition to the foregoing requirements for admission to the work of the College, *each candidate for a degree* must submit satisfactory evidence that he has successfully pursued a course of study equivalent to the first two years of the course leading to a degree in the College of Arts, Philosophy and Science, of this University.

The candidate will be subject to examination in such work. Where this work has been done in a college or university of approved standing, the certificate of such college or university will be accepted as a substitute for such examination.

No applicant for admission to the University will be accepted who is deficient or conditioned in required entrance work representing in the aggregate more than one daily recitation for a year. This rule does not apply to the College work indicated as requisite for a degree. Work of collegiate grade may be made up at any time before the Friday preceding Commencement Day.

A person twenty-one years of age, or over, who desires to pursue a special line of work and does not desire to become a candidate for a degree, may be admitted by vote of the Executive Committee to such classes as he is qualified to enter; provided, that if he afterward become a candidate for a degree he must pass the requirements for admission at least one year before the degree is conferred.

FOR STUDENTS NOT CANDIDATES FOR A DEGREE

Requirements for admission of students who are not candidates for a degree are the same as the requirements for admission of candidates for a degree, except paragraph F.

ADMISSION TO ADVANCED STANDING

Applicants for admission to the Second Year must also present satisfactory evidence of having completed the work of the First Year of the Course in Law, or its equivalent; and applicants for admission to the Third Year must also present satisfactory evidence of having completed the work of the First and Second Years of the Course in Law, or its equivalent.

ADMISSION TO SPECIAL STUDIES.

Persons wishing a knowledge of legal principles for *general business purposes only*, or as a part of a *liberal education*, but not intending to apply for a degree or to take a full course, may be admitted at any time as special students, and may avail themselves of such advantages of the College as they may deem expedient, subject in each case to the approval of the Faculty of the work proposed to be undertaken. Their convenience will not be taken into consideration in arranging classes, and they must make satisfactory arrangements as to fees, hours of recitations, etc., with the Dean.

ADMISSION TO GRADUATE WORK

The Graduate course is open to graduates having the degree of Bachelor of Laws (LL.B.) from Colleges or Schools of Law requiring three years' study of law and having a course of study and requirements equivalent to the undergraduate course of study and requirements of this College. Graduates of any Colleges or Schools of Law, and attorneys-at-law who have been regularly admitted to practice law, may also be admitted to this course.

APPLICATIONS FOR ADMISSION FOR DEGREES

At the time of registration all applicants should present their diplomas and certificates of work done. These certificates should state in detail the studies pursued, the text-books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the rank or standing of the candidate on it. A copy of the course study must accompany the certificate in all cases. These statements should also be accompanied by information as to age, occupation, experience, and work done since leaving school. Blanks for application will be furnished on request made to the Dean.

THESIS

Each candidate for a degree is required to prepare and deposit with the Faculty, not later than the second Saturday before Commencement of the year

of graduation, a thesis of not less than fifteen hundred nor more than five thousand words, exclusive of citations of authorities, upon some subject selected by himself with the approval of the professor giving instruction in that division of law from which the subject is chosen.

The subject of every thesis, with the full name of its author or authors, together with the written approval of it by the head of the department within which it lies, must be filed with the president of the University, on the official blank provided for the purpose, not later than December 15 of the year in which the degree is sought.

All undergraduate theses shall be made on paper of uniform size, 8½ by 11 inches, and of quality and weight equal to that of a sample in the president's office. Theses shall be typewritten or printed, neatly bound in black cloth, and shall be gilt-lettered on the first cover with the thesis title, name of author, degree sought, and year of graduation.

Completed theses must be submitted to the head of the department concerned, not later than the second Saturday before Commencement Day.

A copy of the thesis so prepared and accepted must be filed with the University not later than the Friday preceding Commencement Day.

ADMISSION TO THE BAR

The regular Supreme Court examination for admission to the Bar is held on the first Tuesday in June of each year. Students who have not regularly attended the full course of three years at this College, or who have not been examined here in all the subjects required in the undergraduate course, or who have not presented acceptable certificates from some recognized school or college of law covering the subjects not pursued here by them are required to pass this examination before they can receive the degree of Bachelor of Laws or the certificate mentioned on page 101.

DEGREES

The degree of Bachelor of Laws (LL.B.) will be conferred on all who, being at least twenty-one years of age and having met the requirements necessary for entrance for a degree, pass satisfactorily the examinations at the close of the Senior year, after having done at least that year's work in the College of Law at the University, and having presented a thesis acceptable to the Faculty.

The degree of Master of Laws (LL.M.) will be conferred upon any one who has received the degree of Bachelor of Laws at this University, or other University, or College, or School of Law requiring three years' study of law and having a course of study and requirements equivalent to the undergraduate course of study and requirements of this College, upon completing the studies of the Graduate year, and satisfactorily passing an examination therein, and presenting a satisfactory thesis, the subject of which has been chosen from the work included in the Graduate year.

CERTIFICATES OF WORK DONE

Those who have completed the studies of this College, but have not complied with the requirements for a degree, will be given an official certificate, showing the work done, and signed by the President and Secretary of the Board of Trustees, the President of the University.

No distinction is made between the candidates for a degree and other regular students while in attendance at this College. The two classes of students do the same work, recite together, take the same examinations, are held to the same standards of work and stand on the same footing for admission to the bar.

The distinction between the two classes of students consists entirely in the two following respects:

First—The standard of admission for candidates for a degree is higher than that for those who are not candidates for a degree.

Second—Candidates for degrees who have fulfilled all the entrance requirements and have completed the course of study in a satisfactory manner receive a diploma conferring the degree. Regular students, who are not candidates for a degree, receive under similar circumstances a formal certificate of the completion of the course.

UNDERGRADUATE COURSE OF STUDY

Degree: Bachelor of Laws.

FIRST YEAR

FIRST SEMESTER.		SECOND SEMESTER.	
	Recitation hours per week		Recitation hours per week
Elementary Law (including Domestic Relations, Status and Personal Property)	15	Agency	2
	—	Contracts	4
	15	Criminal Law	3
		Sales	2
		Torts	4
			—
			15

TEXT BOOKS

First Semester—Elementary Law (Robinson, Walker, Tenth edition, and Blackstone and Tiffany's Persons and Domestic Relations.)

Second Semester Agency (Mechem); Contracts; Criminal Law (Hawley); Sales (Tiedeman); Torts (Cooley).

SECOND YEAR

FIRST SEMESTER.		SECOND SEMESTER.	
	Recitation hours per week		Recitation hours per week
Bailments	2	Evidence	3
Negotiable Instruments	5	Partnership	2
Evidence	3	Pleading	2
Pleading	4	Real Property	5
Moot Court	1	Wills	2
	—	Moot Court	1
	15		—
			15

TEXT BOOKS

First Semester—Bailments (Hale); Negotiable Instruments (Tiedeman, Randall); Evidence (Greenleaf, Sixteenth edition); Pleading (Phillips).

Second Semester—Partnership (Mechem); Real Property (Tiedeman); Wills (Page).

THIRD YEAR

FIRST SEMESTER.		SECOND SEMESTER.	
	Recitation hours per week		Recitation hours per week
Constitutional Law	3	Corporations (Private)	2
Corporations (Private)	2	Ethics	2
Corporations (Municipal)	3	Federal Practice	2
Equity Jurisprudence	4	Quasi-Contracts	2
Probate Law	2	Suretyship	2
Moot Court	1	Trial Practice	2
	—	Moot Court	1
	15		—
			13

Thesis for graduation to count for two hours through second semester.

TEXT BOOKS

First Semester—Constitutional Law (Black); Private Corporations (Taylor); Municipal Corporations (Elliott); Equity Jurisprudence (Merwin); Probate Law (Kinhead).

Second Semester—Ethics (Sharswood); Quasi-Contracts (Keener); Suretyship (Stearns); Trial Practice (Kinhead).

GRADUATE COURSE OF STUDY.

Degree: Master of Laws.

FIRST GROUP

GENERAL AND COMPARATIVE JURISPRUDENCE

1. General Jurisprudence. Holland and Particular Topics.
One hour a week, second semester.
2. Comparative Jurisprudence. Roman Law; Outlines.
Two hours a week, first semester.
- History of the Common Law, Pollock & Maitland.
Three hours a week, first semester.

SECOND GROUP

ENGLISH AND AMERICAN CONSTITUTIONAL HISTORY

3. English Constitutional History.
Three hours a week throughout the year.
4. American Constitutional History.
Three hours a week throughout the year.

THIRD GROUP

POLITICAL SCIENCE

5. Public International Law.
6. History of Treaties and Modern Diplomacy.
Two hours a week throughout the year. (Not offered in 1904-1905.)
7. American Diplomatic History.
Three hours a week throughout the year. (Not offered in 1904-1905.)

FOURTH GROUP

AMERICAN JURISPRUDENCE

8. Private Corporations—Cases.
Two hours a week, first semester.
9. Railroad Law.
One hour a week, second semester.
10. Law of Receivers.
One hour a week, second semester.
11. Insurance.
One hour a week, first semester.
12. Negligence and Damages. Cases, and Jones on Negligence of Municipal Corporations.
One hour a week throughout the year.
13. Cases in Evidence.. Thayer.
One hour a week throughout the year.
14. Cases in Equity.
Two hours a week, second semester.
15. Remedies and Remedial Rights, including Drafting Pleadings and other legal papers; preparation for trial; and Moot Court.
One hour a week throughout the year.
16. Real Property, advanced studies, including examinations of titles and making of abstracts of title.
One hour a week, second semester.
17. Circuit and Supreme Court Practice, and Special Proceedings under the Ohio Code of Civil Procedure.
One hour a week, second semester.
18. Private International Law (Conflict of Laws).
One hour a week throughout the year.

The graduate course may be completed in one or two years, according to the desire of the student, with the permission of the Faculty of this College; but at least one year of residence is required.

Subject to the approval of the Faculty, each graduate student must select a major course of study from some one of the groups of subjects specified in the graduate course of study hereinbefore given, and a sufficient number of minor courses to satisfy the requirements of the Faculty.

The major course must occupy at least three hours a week throughout the year, and the minor courses must occupy at least seven hours a week throughout the year.

Graduate students are permitted to select their minor courses from the undergraduate course of study, by permission of the Faculty.

THE COLLEGE OF PHARMACY

The College of Pharmacy offers two courses of study:
The Four Years' Course.
The Two Years' Course.

REQUIREMENTS FOR ADMISSION

To the Four Years' Course:

For *unconditional* admission the candidate must be prepared to offer:

- A. Two units, as follows:
 - English Composition and Rhetoric..... 1 unit
 - English Classics 1 unit
- B. Two units, as follows:
 - Civil Government $\frac{1}{2}$ unit
 - United States History..... $\frac{1}{2}$ unit
 - General History 1 unit
- C. Three units, as follows:
 - Algebra }
 - Plane and Solid Geometry..... } 3 units
- D. Two units, as follows:
 - Physics 1 unit
 - Physical Geography $\frac{1}{2}$ unit
 - Botany $\frac{1}{2}$ unit
- E. Two units, chosen from the following:
 - Latin 2 units
 - German 2 units

The extent and character of the work required in each subject mentioned above, see pages 65-69.

For the present, the German required for admission may be begun at the University, but without University credits.

No applicants for admission to this College will be accepted who are deficient in required entrance work representing in the aggregate more than three units, not counting the German.

ADMISSION TO THE SHORT COURSE

Applicants, unless over twenty-one, must pass an examination in *Arithmetic, Geography, Grammar* and *United States History*, or bring high school or other certificates for those branches. The requirements for English Grammar in the Short Course may be met by writing a business letter or theme on some practical subject. Applicants who are over twenty-one are admitted without examination.

ADMISSION TO SPECIAL STUDIES

Students who desire to pursue special lines of work in the University, and do not desire to become candidates for degrees, will be admitted on the conditions as stated on page 69

ADMISSION TO ADVANCED STANDING

For admission to advanced standing in this College see requirements as stated on page 69.

ADMISSION TO GRADUATE WORK

For admission to graduate work in this College see statement on page 69.

LONG COURSE

Degree: Bachelor of Science in Pharmacy.

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Chemistry (7)	5	Chemistry (7)	5	Chemistry (12)	4
Inorganic.		Inorganic.		Qualitative Analysis.	
Latin (26)	4	Latin (26)	4	Latin (26)	4
Pharmaceutical.		Pharmaceutical.		Pharmaceutical.	
or		or		or	
German (1)	4	German (1)	4	German (1)	4
Elementary.		Elementary.		Elementary.	
Mathematics (31)	5	Mathematics (32)	5	Mathematics (33)	5
College Algebra.		Trigonometry.		Plane Analytics.	
Rhetoric (1)	2	Rhetoric (1)	2	Rhetoric (1)	2
Paragraph Writing.		Theme Writing.		Prose Analysis.	
Cadet Service (men)		Cadet Service (men)		Cadet Service (men)	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women)		Training (women)		Training (women)	

SECOND YEAR

Botany (3)	4	Botany (4)	2		
Systematic, Physiological.		Medical.			
Chemistry (20)	4	Chemistry (20)	4	Chemistry (20)	4
Quantitative Analysis.		Quantitative Analysis.		Quantitative Analysis.	
German (2)	2	German (2)	2	German (2)	2
Scientific Reading.		Scientific Reading.		Scientific Reading.	
Pharmacy (6)	3	Pharmacy (7)	5	Pharmacy (8)	5
General Processes.		U. S. Pharmacopoeia.		Dispensatories, etc.	
Physics (11)	3	Physics (11)	3	Physics (11)	3
General Physics.		General Physics.		General Physics.	
Chemistry (21)	2	Chemistry (21)	2	Chemistry (21)	2
Advanced Inorganic.		Advanced Inorganic.		Advanced Inorganic.	
Cadet Service (men)		Cadet Service (men)		Cadet Service (men)	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women)		Training (women)		Training (women)	
		Chemistry (40)	1	Chemistry (40)	1
		Stoichiometry.		Stoichiometry.	

THIRD YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Pharmacy (9)	5	Pharmacy (10)	5	Pharmacy (11)	5
General Processes.		Prescriptions.		Dispensatories, etc.	
Pharmacy (12)	3	Pharmacy (13)	3	Pharmacy (14)	3
Materia Medica.		Materia Medica.		Mat. Medica and Thera.	
Physiology (1)	3	Physiology (1)	3	Physiology (1)	3
Human Anatomy.		Physiology.		Physiology.	
Bacteriology (1)	2	Bacteriology (1)	2	Physiology (6)	2
				Microscopy.	
Chemistry (8)	5	Chemistry (9)	5	Chemistry (9)	5
Organic.		Organic.		Organic.	

FOURTH YEAR

Pharmacy (20)	3	Pharmacy (18)	3	Metallurgy (2)	3
Pharmacognosy.		Pharmacognosy.		Mineralogy.	
Geology (2)	5	Geology (6)	3	Chemistry (11)	4
General.		Economic.		Toxicology.	
Pharmacy (15)	5	Pharmacy (16)	5	Pharmacy (17)	5
Assaying.		General.		General.	
Thesis.		Thesis.		Thesis.	

Elective, five hours through the year subject to the approval of the Professor of Pharmacy.

SHORT COURSE

On the satisfactory completion of this course the student is granted a certificate of "Pharmaceutical Chemist."

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses.

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Chemistry (3)	5	Chemistry (3)	5	Chemistry (12a)	4
Inorganic.		Inorganic.		Qualitative Analysis.	
Latin (26)	4	Latin (26)	4	Latin (26)	4
Pharmaceutical.		Pharmaceutical.		Pharmaceutical.	
Physics (1)	5	Physics (1)	5	Botany (1)	5
Elementary.		Elementary.		Elementary.	
Pharmacy (6)	3	Pharmacy (7)	5	Pharmacy (8)	5
General Processes.		U. S. Pharmacopoeia.		Dispensatories, etc.	
Cadet Service (men)		Cadet Service (men)		Cadet Service (men)	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women)		Training (women)		Training (women)	

SECOND YEAR

Pharmacy (12)	3	Pharmacy (13)	3	Pharmacy (14)	3
Materia Medica.		Materia Medica.		Mat. Medica and Thera.	
Chemistry (34)	5	Chemistry (34)	5	Chemistry (11)	4
Organic.		Organic.		Toxicology.	
Pharmacy (9)	5	Pharmacy (10)	5	Pharmacy (11)	5
Phar. Chemistry.		Prescription Practice.		Dispensing Practice.	
Physiology (3)	3	Pharmacy (18)	3	Physiology (5)	2
		Pharmacognosy.		Microscopy.	
Bacteriology (1)	2	Bacteriology (1)	2	Pharmacy (19)	3
				Pharmacognosy.	
Cadet Service (men)		Cadet Service (men)		Cadet Service (men)	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women)		Training (women)		Training (women)	

COLLEGE OF VETERINARY MEDICINE

REQUIREMENTS FOR ADMISSION TO VETERINARY COLLEGE.

Applicants for admission to the College of Veterinary Medicine must be at least seventeen years of age.

I. For applicants for certificate of Veterinary Surgeon: Arithmetic, Geography and Grammar.

II. For applicants who intend to become candidates for the degree of Doctor of Veterinary Medicine:

For *unconditional* admission the candidate must be prepared to offer, besides Arithmetic, Geography and Grammar:

- A. One unit:
English Composition and Rhetoric..... 1 unit
- B. One-half unit:
United States History..... $\frac{1}{2}$ unit
- D. Two units:
Physics 1 unit
Physical Geography $\frac{1}{2}$ unit
Botany $\frac{1}{2}$ unit
- E. One unit, chosen from the following:
Latin 1 unit
German 1 unit

The extent and character of the work required in each subject mentioned above is to be found on page 69.

ADMISSION TO SPECIAL STUDIES

Students who desire to pursue special lines of work in this College will be admitted on the conditions as stated on page 69.

ADMISSION TO ADVANCED STANDING

For admission to advanced standing in this college see requirements as stated on page 69.

COURSE IN VETERINARY MEDICINE

The course of study, depending upon the subjects offered for admission, leads to

- (a) the Degree of Doctor of Veterinary Medicine (D. V. M.) or to
- (b) a Certificate of Veterinary Surgeon (V. S.)

NOTE—The figure in parenthesis following the name of each study indicates the number of the study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

First Term	Credit hours	Second Term	Credit hours	Third Term	Credit hours
Agr'l Chemistry (1)	5	Agr'l Chemistry (8)	5	Physiology (14)	3
Principles.		Organic.		Physiology.	
Physiology (4)	5	Physiology (14)	3	Physiology (4)	5
Histology.		Physiology.		Phys. Chemistry.	
Veterinary Med. (11)	10	Physiology (4)	5	Veterinary Med. (13)	10
Anatomy.		Histology.		Anatomy.	
		Veterinary Med. (12)	10	Bacteriology (4)	3
		Anatomy.		Bacteriology.	
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Physiology (14)	1	Veterinary Med (38)	5	Veterinary Med (38)	5
Physiology.		Materia Medica.		Laboratory.	
Veterinary Med. (38)	5	Veterinary Med. (15)	5	Veterinary Med. (16)	5
Materia Medica.		Theory and Practice.		Theory and Practice.	
Veterinary Med. (14)	5	Veterinary Med. (18)	3	Veterinary Med. (18)	3
General Pathology.		Surgical Diseases.		Surgical Diseases.	
Veterinary Med. (24)	2	Veterinary Med. (19)	3	Veterinary Med. (19)	3
General Surgery.		Clinic.		Clinic.	
Veterinary Med. (37)	5	Veterinary Med. (34)	3	Veterinary Med. (34)	3
Anatomy.		Pathology Laboratory.		Pathology Laboratory.	
Zoology	2				
Embryology.					
Cadet Service.		Cadet Service.		Cadet Service.	

THIRD YEAR

Veterinary Med. (21)	5	Veterinary Med. (25)	3	Veterinary Med. (22)	3
Theory and Practice.		Practice in Operating.		Therapeutics.	
Veterinary Med. (19)	3	Veterinary Med. (19)	3	Veterinary Med. (19)	3
Clinic.		Clinic.		Clinic.	
Veterinary Med. (18)	3	Veterinary Med. (27)	3	Veterinary Med. (23)	5
Surgical Diseases.		Meat Inspection.		Obstetrics.	
*Agriculture (18)	2	Veterinary Med. (31)	5	Veterinary Med. (18)	3
Milk Inspection.		Canine Diseases.		Surgical Diseases.	
Veterinary Med. (26)	3	Agriculture (40)	5	Veterinary Med. (33)	2
Horse Shoeing.		Zootechny.		Ophthalmology.	
Veterinary Med. (36)	3	*Bacteriology (4a)	3		
Pathology Laboratory.					

* Electives.

DEPARTMENTS OF INSTRUCTION

DEPARTMENTS OF INSTRUCTION

1904-1905

AGRICULTURE.

Townshend Hall.

AGRONOMY.

ASSISTANT PROFESSOR MILLER.

2. **Farm Equipment.** Four and one-half credit hours. First term. Lectures and recitations on selecting, laying out and equipping of farms, planning and erecting farm buildings, fencing, road building, farm machinery, farm power, water supply, and farm engineering. Practicums in drawing plans of farms and farm buildings, levelling and laying out drains, comparison of farm machines, and in working out problems in farm mechanics. M., Tu., and Th., at 10 and W., or F., 1 to 4.
4. **Rural Engineering.** Five credit hours. Third term. Lectures, recitations, and practicum on (a) Laying out the farm, including location of buildings and works; division of the farm into fields and yards and the survey and measurement of the same; (b) Construction of buildings and works, including water supply, drains, sewage system, and roads; (c) The construction and use of farm machinery, including the application of mechanical principles in its structure and operation. Special attention will be given to comparisons and tests of various makes and kinds of farm machinery. Th., F., at 9 and M., Tu., 1 to 4.
11. **Elementary Soils.** Four and one-half credit hours. Second term. Lectures and recitations on the formation, kinds, properties and means of improvement of soils, special attention being given to the practical bearings of the subject. Practicum in the laboratory, studying the relation of soils to heat, moisture, air, and fertilizers. Two-year course in Agriculture. M., T., W., at 11 and W., 1 to 4.
12. **Elementary Soils.** Four and one-half credit hours. Second term. Lectures and recitations on the origin, formation, kinds, chemical and physical characters of soils, the factors which control fertility, and the improvement of soils by cultivation, fertilization, drainage, and irrigation. Laboratory studies of the physical properties of soils, their relations to heat, moisture, air, and fertilizers, and the making of mechanical analysis. Four-year course in Agriculture, and Horticulture and Forestry. M., Tu., Th., at 10 and F., 1 to 4 or S., 8 to 11.
14. **Advanced Soils.** Five credit hours. First term. Lectures and recitations on the physical and chemical differences of soils, the factors underlying the study of soil fertility and soil improvement and the consideration of methods of cultivation and cropping as affecting crop-producing power. Laboratory studies on certain physical properties of soils, the nature of soil solution, methods of determining certain soluble salts, and the making of mechanical analyses. Th., F., at 9 and M., Th., 1 to 4.

16. **Field Work in Soils.** Three credit hours. Third term. Lectures on classification and general character of the more important soils of the United States, the methods of establishing soil types, the relation of topography to classification and the consideration of texture affecting adaptability to crops. Practical work in the mapping of field soils, the use of the plane table in field work and in the preparation of reports of soil surveys. Special attention will be given to the work of the Bureau of Soils, U. S. Department of Agriculture. F., at 10 and S., 8 to 12.
22. **Farm Crops.** Four and one-half credit hours. Third term. Lectures and recitations upon the history, production, marketing, cultivation, harvesting of farm crops. Practicum with growing and dried specimens of crops, including grasses, clovers and other forage crops. M., Th., at 10 and W., or F., 1 to 4.
24. **Agricultural Experimentation.** Four credit hours. Second term. Lectures and recitations on the nature and value of agricultural experimentation, on the history and development of experiment stations and on the methods and character of station work. Seminars on study of experimental work as related to crop production and a detailed study of experimental results with the more important field crops. F., at 10; M., Tu., 1 to 4.
26. **Improvement of Farm Crops.** Five credit hours. Third term. Lectures and recitations on the improvement of farm crops through breeding and selection. Practicums in studying typical specimens of the more important crops, in cross fertilization of wheat, oats, rye, and corn and practice in corn judging. M., Tu., at 9 and Th., 1 to 4.

ANIMAL HUSBANDRY.

PROFESSOR PLUMB, MR. ———

1. **Breeds of Live Stock.** Four and one-half credit hours. First term. General consideration of the history, characteristics, and adaptability of horses, cattle, sheep and swine. Practicum in scoring and judging live stock. Two year course in Agriculture. M., W., F., at 9 and Tu., 1 to 4.
2. **Breeds of Live Stock.** Four and one-half credit hours. First term. Horses and cattle. Lectures and recitations upon the history, characteristics, adaptation, etc., of the different breeds of horses and cattle. Practicum in scoring and judging. M., W., F., at 11, and W., 1 to 4.
3. **Stock Feeding.** Four and one-half credit hours. Second term. Lectures and recitations upon the laws of nutrition, the character of feed stuffs, and the methods of feeding different domestic animals. Students are given practical instruction in working out feeding rations, making studies of herds and flocks and reporting thereon. Two year course in Agriculture. M., W., F., at 9 and Tu., 1 to 4; F., 10.
4. **Breeds of Live Stock.** Four and one-half credit hours. Third term. Sheep and swine. Lectures and recitations upon the history, characteristics, adaptation, etc., of breeds of sheep and swine. Practicum in scoring and judging. M., W., F., at 11 and W., 1 to 4.
5. **Principles of Breeding.** Four and one-half credit hours. Third term. Lectures and recitations upon the laws of heredity and the various principles underlying animal breeding. Students are given considerable practice in studying the methods of breeding associations, tracing out pedigrees of prominent farm animals, access being given to many herd, flock, and stud books. Two year course in Agriculture. M., W., F., at 9 and Tu., 1 to 4.

- 6 **Principles of Breeding.** Four and one-half credit hours. Second term. Lectures and recitations upon the laws of heredity and their practical applications. Practicum in studying animal form and in writing and tracing pedigrees; illustrating methods and studying inheritance. M., W., F., at 11, and W., 1 to 4.
- 8 **Stock Feeding.** Four credit hours. First term. Lectures and recitations upon the laws of nutrition, the character of food stuffs, and the methods of feeding different kinds of domestic animals. Considerable practice is given in calculating digestibilities, nutritive ratios, and feeding standards. M., Tu., Th., F., at 10.
- 10 **Hygiene and Management.** Four credit hours. Second term. Lectures and recitations upon the care and management of herds and flocks. M., Tu., Th., F., at 10.
- 12 **Animal Conformation and Stock Judging.** Four and one-half credit hours. First term. Lectures, recitations, and laboratory work dealing with advanced students in studying animal conformation, with considerable practical work in judging. Special consideration will be given to market types of stock and their relationship to values. M., W., F., at 8 and Th., 1 to 4.
- 13 **Dairy Cattle Feeding.** Three credit hours. Special Course in Dairying, proper feeding rations. These lectures are of importance to the farmer. These are lectures upon the character of food stuffs, the relation of food to the animal, and the kind and quantity of food for the best milk production. The students are required to calculate digestibilities and nutritive ratios of different foods and to arrange therefrom proper feeding rations. These lectures are of importance to the farmer who produces the milk or to the factoryman who wishes to be intelligent on the subject and help his patrons.
- 14 **Live Stock Markets and Commerce.** Four and one-half credit hours. Second term. Lectures and recitations upon the methods of preparing and shipping stock to local and distant markets; of the various available markets and the relationship of prices to grades of stock; of stock yard and packing house methods; of export trade and methods of shipping abroad, etc. Practicum making up comparative market reports and inspecting transportation agencies, stock yards and packing houses. M., W., F., at 8, and Th., 1 to 4.
- 15 **Dairy Breeds and Breeding.** Four credit hours. Under this subject there are lectures upon the history, adaptation, care and management of different breeds of dairy cattle. By means of the score card with the animals before them, the students are taught to judge animals for dairy purposes. There are lectures on the principles of breeding and the student is required to trace and expand pedigrees and to understand the methods of recording animals as practiced by different breeders' associations. Special course in Dairying.
- 16 **Wools and Other Animal Fibers.** Four and one-half credit hours. Third term. Lectures and recitations upon the sources of supply of wools and other animal fibers, methods of shearing, market classification, preparation and shipping, relative values of fibers of breeds and crosses. Practicum in shearing, classifying wools, making laboratory study of fibers, etc. M., W., F., at 8, and Th., 1 to 4.
- 18 **Types and Breeds of Animals.** Five credit hours. Second term. Lectures and recitations upon the types and breeds of stock, dealing with conformation and its relationship to type and breed development. Practicum in judging stock. Course in Veterinary Medicine.

DAIRYING.

PROFESSOR DECKER, MR. HERRICK, MR. CROWNER, MR. MANGOLD.

1. **Laboratory in Butter Making and Cheese Making.** Six credit hours, First year. Practice four afternoons each week in testing milk as to purity, content of butter fat; in the use and care of centrifugal separators and of different makes and other creamery and dairy devices; and in the making of butter and cheese by the most improved methods. The student is required to follow the milk from the time it enters the laboratory until the finished product leaves it, and to determine the points in the process where losses occur and the reasons therefor. First year. Special course. M., Tu., W., Th., 1 to 5.
3. **Lectures in Butter Making and Cheese Making.** Three credit hours. Lectures and recitations on methods of creaming; factors which control the thoroughness of the separation of cream, and the manufacture of butter and cheese and sanitary milk supply. First year. Special course. Tu., Th., F., at 9.
2. **Dairy Laboratory.** Six credit hours. The preparation of starters, use of Wisconsin curd test, churning and working of butter and the manufacture of cheese and fancy products. Second year. Special course.
4. **Dairy Lectures.** Two credit hours. The manufacture of butter and cheese, and factory management. Second year. Special course.
12. **Elements of Dairying.** First term or third term. Lectures and laboratory work. Five hours' credit. Tu., Th., 8, and M., Tu., 1 to 4 or F., 1 to 4.
14. **Butter Making.** Five credit hours. Lectures and laboratory work. Tu., Th., 8 and F., 1 to 4 and S., at 11.
This course must be preceded by course (12).
16. **Cheese Making.** Third term. Lectures and laboratory work. Five hours' credit. Tu., Th., at 8 and M., Tu., 1 to 4 or F., 1 to 4 and S., 8 to 11
This course must be preceded by course 12.
18. **Advanced Dairying.** Two credit hours. Elective three terms. Seminar and laboratory work. A study of experiment station work and other dairy literature with experiments in laboratory to verify statements found. Practice in producing fancy dairy products. Hours to be arranged.
19. **Milk Inspection.** One credit hour. First term. One lecture or laboratory period a week. Required in the course in Veterinary Medicine.
20. **Household Dairying.** Two credit hours. Third term. This course will treat of the composition and nature of milk and its products, their purity and adulterations and their physical and chemical properties in cookery. Elective in the course in Domestic Science. Tu., at 11, W., 1 to 3.

RURAL ECONOMICS.

PROFESSOR PRICE.

2. **Farm Management.** Four credit hours. First term. Lectures and recitations upon farm management, farm accounts, and the cost and relative profits of grain farming, dairy farming, stock farming, and general farming. M., Tu., Th., F., at 10.
4. **History of Agriculture and Literature of Agriculture.** Four credit hours. Second term. Lectures and recitations upon the history of Agriculture; the literature of Agriculture, including current periodicals. M., Tu., Th., F., at 10.

6. **Agricultural Economics.** Four credit hours. Third term. Lectures and recitations upon the distribution and production of agricultural products; ownership, tenure and rent of farm lands; transportation and marketing of farm products; farm labor and wages. M., Tu., Th., F., at 10.

AGRICULTURAL CHEMISTRY

Townshend Hall, Rooms 29, 30, 34 and 35.

PROFESSOR WEBER, ASSOCIATE PROFESSOR VIVIAN, MR. HIRSCH.

10. **Principles of Chemistry and Chemical Nomenclature.** Six credit hours. First term. Lecture and recitations on elementary inorganic chemistry and laboratory experiments with the elements studied in class, using McPherson's Laboratory Note Book as a guide. Recitations, M., W., F., at 9; Laboratory, Sec. I: M., Tu., 1 to 4; Sec. II: Tu., W., 1 to 4; Sec. III, W., F., 1 to 4.
11. **Principles of Chemistry and Chemical Nomenclature.** Six credit hours. Second term. Lectures and recitations on elementary inorganic chemistry. Laboratory work during first half of term continuation of first term; second half qualitative analysis, using Weber's Select Course in Qualitative Analysis as a guide. Recitations, M., W., F., at 9; Laboratory, Sec. I: M., Tu., 1 to 4; Sec. II Tu., W., 1 to 4; Sec. III: Tu., W., 1 to 4.
12. **Organic Chemistry.** Six credit hours. Third term. Lecture and recitations on elementary organic chemistry and laboratory work in quantitative analysis, using Weber's Select Course in Qualitative Analysis as a guide. Recitations, M., W., F., at 9; laboratory, Sec. I, M., Tu., 1 to 4; Sec. II, Tu., W., 1 to 4; Sec. III, W., F., 1 to 4.
1. **Elements of Inorganic Chemistry.** Six credit hours. First term. Lectures and recitations on non-metals and laboratory experiments with the elements studied in class, using McPherson's Laboratory Note Book as a guide. Tu., Th., F., at 10 and M., Tu., 1 to 4.
8. **Elements of Organic Chemistry.** Six credit hours. Second term. Lectures and recitations during first half of term on metals; during second half of term lectures on organic chemistry. Laboratory work during first half of term continuation of first term; second half qualitative analysis, using Weber's Select Course in Qualitative Analysis as a guide. Tu., Th., F., at 10 and M., Tu., 1 to 4.
9. **Application of Chemistry to Agriculture.** Six credit hours. Third term. Lectures and recitations embrace the following topics: Ingredients of plants, organic and inorganic, essential and non-essential; sources of plant food, air and soil; nature of soil, mechanical portion, nutritive portion, assimilable and reserve plant food; soil exhaustion and amelioration; barn-yard manure, its sources, composition and preservation, commercial fertilizers, their rational use and methods of determining the needs of soils, feeding stuffs and feeding rations. Laboratory work consists of qualitative analysis, using Weber's Select Course in Qualitative Analysis as a guide. Tu., Th., F., at 10 and M., Tu., 1 to 4.
13. **Lectures and Laboratory.** Five credit hours. Three terms. Two lectures and three laboratory periods throughout the year. Lectures as in 9, and on the industries related to agriculture, as the manufacture of sugar from cane, sorghum and beets; the manufacture of starch, glucose and dextrine; the nature and manufacture of vinegar, as fruit, malt and distilled vinegar; the manufacture of alcohol, malt liquors and wines. Laboratory practice Monday and Tuesday afternoons or Thursday and Friday afternoons, and Thursday 8-10 a. m., consists of the official methods of analyzing fertilizer, feeding stuffs, milk,

butter and cheese; the analysis of sugar, syrup and sugar producing plants, as beets; determination of cane sugar and milk sugar by means of the polariscope. The analysis of flour, fruits, vegetables, condiments, etc. The analysis of vinegar, as cider, malt and distilled vinegar; the analysis of spirituous and fermented liquors.) Students of other departments may also elect three hours through the year in this course. For students in the courses in Agriculture and Horticulture and Forestry: Recitation, Tu., Th., at 9; Laboratory, Th., F., 1 to 4.

14. **Laboratory and Lectures.** First and second term. Course in Domestic Science. The laboratory practice embraces as much as possible of the work in quantitative analysis of simple salts and foods as mentioned in course 13. Tu., at 10; Th., F., 2 to 4.
6. **Laboratory.** Three to five credit hours. Three terms. The work of this course consists of the complete sanitary analysis of water, for which a special room detached from the main laboratory has been fitted up; the complete analysis of soils; the various official methods of determining nitrogen, potash and phosphoric acid; the analysis of oils and fats; complete analysis of grains; the analysis of tea and coffee; the examination of foods, syrups, spices, condiments, flavoring extracts for adulteration; also any work of previous courses, which for lack of time, may not have been completed. Th., at 10 and W., Th., 1 to 4.
7. **Chemistry of Milk and Milk Testing.** Four credit hours. Second term. For dairy students. The lectures include a short course in elements of chemistry. The laboratory work covers the following manipulations: The Babcock method of determining fat in pure milk, skimmed milk, cream, sour milk and cheese; the testing of instruments, (milk bottles, lactometers, etc.). The calculation of the composition of milk by Fleischman and Babcock formulae; the determination of preservatives in milk; the detection of artificial colors in butter and oleomargarine, etc. W., Th., at 11, F., 2 to 4, S., 8 to 10.
15. **Advanced.** Four credit hours. Three terms, optional. Four laboratory periods. Laboratory work consists of official methods of analysis of soils, sanitary and complete water analysis, etc. Hours to be arranged.

AMERICAN HISTORY AND POLITICAL SCIENCE

University Hall, Rooms 27, 18 and 48.

PROFESSOR KNIGHT, ASSISTANT PROFESSOR TUTTLE, MR. SPENCER.

I American History

The courses in American history are of four classes: (a) introductory (course 1), designed as a general foundation course in American political and social history; (b) advanced, (courses 2, 4, 6, 7) designed to cover distinct periods or phases of American historical development; (c) special, (courses 8, 9, 10, 12, 13) involving the deeper study of special subjects or movements, and designed to train and employ the student's faculty of investigation; and (d) a teacher's course, (course 11).

Course 1 must precede all other courses and should therefore be taken in either the first or the second year. After this is completed students may elect at their pleasure from the courses in the advanced group (courses 2, 4, 6, 7), but it is desirable that election should be made for an entire year and not for single terms. Students who intend to go far with their studies in American history should take English history (European history 14) early in their course. American history 8 and 9 may be taken in connection with any of the above advanced group, but other courses of the special group are open only to fourth year and graduate students.

1. **Political History of the United States.** Three credit hours. Three terms. A general course covering the political and social history from the earliest colonial times to the present. Text-books, prescribed readings and topical reports. Thwaites's *The Colonies*; Hart's *Formation of the Union*. Wilson's *Division and Reunion*. Sec. I: M., W., F., at 8; Sec. II: M., W., F., at 9; Sec. III: M., W., F., at 1. Assistant Professor Tuttle, Mr. Spencer.
This must precede all other courses in American history.
2. **The Formation of the United States, 1600-1820.** Three credit hours. Three terms. An advanced course covering the political and institutional development of the colonies and the establishment of a federal union. First term, the colonies 1600-1774; second term, revolution and constitution-making, 1774-1789; third term, the development of democratic national and state governments, 1789-1820. Lectures, reading and reports. M., W., F., at 2. It is desired that this course be preceded or accompanied by *European History 14* or 4. Mr. Spencer.
Given biennially. Not offered in 1904-1905.
4. **The Slavery Struggle and Its Results, 1800-1885.** Three credit hours. Three terms. An advanced course comprising a study of the development and downfall of slavery in the United States, and its relation to and influence upon government, legislation and political organization. First term, development and status until the Compromise of 1850; second term, secession and civil war, 1850-1865; third term, reconstruction and its effects, 1865-1885. Lectures, readings and special reports. M., W., F., at 11. Professor Knight.
6. **American Diplomacy, Foreign Relations and Expansion.** An advanced course comprising an historical study of the foreign relations, problems, and policy of the United States, including the acquisitions of territory and their effects on our institutions and government. Lectures, readings and special reports. Three hours credit, throughout the year. M., W., F., at 11. Professor Knight.
Given biennially. Not offered in 1904-1905.
7. **History of Political Parties, 1774-1900.** Three credit hours. Three terms. A detailed study of the origin, development and structure of political parties in the United States with particular attention to their social composition, geographical distribution, organization and political methods. First term, the Federalist and Republican parties, 1774-1820. Second term, Jacksonian Democracy, Whigs and Republicans, 1820-1860. Third term, the present parties, 1860-1900. Lectures, parallel reading, quizzes and reports. M., W., F., at 2. Mr. Spencer.
8. **Historical Material and Its Use.** One credit hour. First and second terms. Lectures on elementary historical bibliography and the use of American historical documents with practical exercises. Especially designed for students intending to do advanced work in American history and political institutions. W., at 3. All students specializing in American history and political science should take this course and the one following. Assistant Professor Tuttle.
9. **Topical Research in American History.** One credit hour. Third term. The preparation of/special topics on the basis of the work of course 8. W., at 3. Assistant Professor Tuttle.
Open to those who have had course 8.
10. **Seminary for Research Work in American History and Political Science.** Two credit hours (at one meeting). Three terms. M., 3 to 5. Professor Knight.
Open on permission of the head of the department to those who have had two courses in American history (in addition to American history 8-9), and at least one course in political science.

11. **The Teaching of American History.** One credit hour. Second and third terms. A course in methods of teaching American history, especially in the secondary schools, designed for advanced students preparing themselves as teachers and expecting to ask this department for recommendation as to their qualifications. Th., at 3. Professor Knight.
12. **Graduate Seminary in American History and Institutions.** Two credit hours. Three terms. Some limited field will be made in the subject of co-operative study each year by the seminary. So far as possible the investigation will be in the sources. The subject for 1904-1905 will be the Revolutionary Period, with special reference to the diplomatic history from 1776 to 1800. Hours to be arranged. Professor Knight.
Open only to graduate students.
13. **Graduate Courses.** Under this number courses are arranged at the beginning of the year to meet the needs of individual students desiring to pursue graduate work in American history. Professor Knight.

II Political Science

The work in political science should be begun with course 1, but some other courses may be taken in connection with it. The order in which the other courses should be taken will vary according to the student's historical training. In all cases the work is closely dependent upon historical knowledge, the amount and kind varying for different courses. So far as possible a suggestion on this point is given below in connection with each course.

1. **Modern Political Institutions.** Three credit hours. Three terms. Introductory course in political science, comprising a study of the political and administrative systems of leading countries with particular reference to their actual operation. First term, the United States government and the state governments. Second term, England, France, Italy, and countries with government of the parliamentary form. Third term, German, Swiss, and other federations. Lectures, quizzes, parallel readings and reports. Bryce, American Commonwealth, and A. L. Lowell, Government and Parties in Continental Europe, cover the ground of this course. Woodrow Wilson, The State is an alternative. M., W., F., at 9 Mr. Spencer.

Prerequisite: American History 1, or European History, 1 or 14.

4. **International Law.** Two credit hours. First and second term. A study of public international law. Text book and lectures, Lawrence's Principles of International Law. Tu., and Th., at 10. Professor Knight. Open to those who have had one course in European History and one course in American History.
5. **History of Treaties and Modern Diplomacy.** Two credit hours. Third term. A study of the leading treaties of modern times, with special reference to their bearing on international law and the political relations of the leading nations. Lectures accompanied by collateral reading and special reports. Tu., Th., at 10. Professor Knight.

Course 5 must be preceded by course 4, with which it forms a year's consecutive work.

6. **The Government of Dependencies.** Two credit hours. First term. A study of the government of dependencies by the home country, and of the political and legal relations between them. Lectures, assigned reading and special reports. Tu., Th., at 11. Professor Knight.
7. **Colonial Institutions.** Two credit hours. Second term. A study of local institutions, civil service and administration, and the development of local self-government in the leading colonies of to-day. Lectures, assigned reading and special reports. Tu., Th., at 11. Professor Knight.

Course 7 must be preceded by course 6.

8. **Municipal Government.** Two credit hours. Third term. A study of the development, status and government of modern municipalities, and a comparative study of recent American municipal charters. Lectures, collateral reading and special reports. Tu., Th., at 11. Professor Knight.
9. **Origin and Development of the United States Constitution.** Two credit hours. Third term. An historical study of the origin, in English, colonial and state institutions, of the constitution and its development by interpretation and exposition by the Supreme Court in selected leading cases. Lectures, assigned reading, discussions and special reports. Tu., Th., at 2. Assistant Professor Tuttle.
10. **Theories of Government, Sovereignty and Political Liberty.** Two credit hours. Three terms. An introductory survey of the origins of political theories, followed by an historical study of the political doctrines expressed in American constitutions and a critical examination of these doctrines in the light of recent European and American thought. Lectures, reports and discussions. Tu., Th., at 9. Mr. Spencer.

Open to graduates and qualified undergraduates who have obtained the instructor's permission.

12. **Comparative Politics.** Two credit hours. Three terms. A study of parties and political methods in legislation, administration and elections in the United States, Great Britain and its colonies, France, Germany, and the leading European countries. Lectures, quizzes, parallel reading and reports. M., F., at 10. Mr. Spencer.

Open only to those who have taken Political Science 1.

13. **Administration in the United States.** Two credit hours. Three terms. This course is a study of the government in action. The first term will be given to a study of Federal administration, including the president and the executive departments. The second term will cover State administration, including the governor, the executive departments and the political subdivisions of the State. The third term will be given to a study of Administration in Ohio. Tu., Th., at 3. Assistant Professor Tuttle.

ANATOMY AND PHYSIOLOGY

Biological Hall, Rooms 12 and 20

PROFESSOR BLEILE, MR. DRESBACH, MR. SEYMOUR, MR. BEER.

1. **Human Anatomy and Physiology.** Three credit hours. Three terms. Lectures, recitations and laboratory work. This course must be preceded or accompanied by a course in chemistry. Sec. I, M., W., F., at 8. Mr. Dresbach. Sec. II: M., Th., F., at 10. Professor Bleile.
2. **General Physiology.** Three credit hours. First term. Lectures, recitations and demonstrations. M., W., F., at 9. Mr. Dresbach.
3. **Chemical Physiology.** Three hours credit. Third term. Th., F., 1 to 4. Professor Bleile.
4. **Histology and Histo-Chemistry.** Five credit hours. Three terms. M., Tu., W., 1 to 4. Professor Bleile, Mr. Dresbach, Mr. Seymour, Mr. Beer.

The work of this course is also offered in the summer by Mr. Dresbach, beginning June 29th and continuing six weeks.

5. **Microscopy and Urinary Analysis.** Two credit hours. Third term. Lectures and laboratory work. Hours to be arranged. Professor Bleile, Mr. Dresbach. M., Tu., at 9.
9. **Physiological Laboratory.** Three credit hours. Three terms. Laboratory hours to be arranged. Professor Bleile.
11. **Physiological Laboratory.** Five credit hours. Three terms. Hours to be arranged. Professor Bleile.
14. **Comparative Physiology.** Lectures and recitations. Three credit hours. Second, third and first terms. This course must be preceded or accompanied by a course in chemistry. Professor Bleile.

ANCIENT ART

(See Greek Language and Literature.)

ARCHITECTURE AND DRAWING

ARCHITECTURE

PROFESSOR BRADFORD, ASSOCIATE PROFESSOR FRENCH.

4. **Specifications.** Two credit hours. Lectures and practice in preparing Specifications for Architectural Structures. (Course in Architecture, fourth year, second term, Tu., at 11, W., 1 to 3.) Professor Bradford.
5. **Decoration and Ornament.** Three credit hours. Lectures on the different styles of carved ornaments and decorative color. The practice part of this subject will be incorporated in Clay-Modeling and Designing. (Course in Architecture, third year, first term, M., W., at 9; F., 9 to 11.) Professor Bradford.
6. **Estimates and Superintendence.** Four credit hours. Lectures and practice in preparing estimates for structures designed in Courses 11, 12, 13, and 21, and the duties of superintendence. (Course in Architecture, fourth year, third term, M., W., at 8; W., 1 to 5.) Professor Bradford.
7. **Heating, Ventilating and Plumbing.** Five credit hours. Lectures and experimental work. Lectures on the principles and methods of heating and ventilating and of sanitary plumbing. Experimental work is carried on with the heating and ventilating plants in the different University buildings. (Course in Architecture, fourth year, second term, M., W., F., at 8. M., Tu., 1 to 3.) Professor Bradford.
9. **History of Architecture.** Three credit hours. Lectures illustrated by lantern slides. (Course in Architecture, second year, first term, M., W., F., 11.) Professor Bradford.
10. Continuation of 9. (Course in Architecture, second year, second term, M., W., F., at 11. Professor Bradford.
11. Continuation of 10. (Course in Architecture, second year, third term, M., W., F., at 11.) Professor Bradford.
12. **Architectural Drawing.** Two credit hours. Drawing architectural ornament, details of orders and styles, with the special object of impressing upon the student's mind the architectural characteristics considered in Course 9. (Course in Architecture, second year, first term, W., Th., 2 to 4.) Professor Bradford.
13. Continuation of 12. (Course in Architecture, second year, second term, W., Th., 2 to 4.) Professor Bradford.

14. Continuation of 13. (Course in Architecture, second year, third term, W., Th., 2 to 4.) Professor Bradford.
15. **Designing.** Four credit hours. Lectures and practice in designing structures adapted to modern requirements. (Course in Architecture, third year, first term, W., Th., 1 to 4. F., 1 to 3.) Professors Bradford and French.
16. **Designing.** Two credit hours. Lectures and practice. (Course in Architecture, third year, second term. Th., F., 1 to 3.) Professors Bradford and French.
17. **Designing.** Four credit hours. Lectures and practice. (Course in Architecture, third year, third term, W., Th., 1 to 4. F., 1 to 3.) Professors Bradford and French.
18. **Designing.** Four credit hours. (Course in Architecture, fourth year, first term, Th., at 10. W., Th., 1 to 4.) Professor Bradford.
19. **Designing.** Four credit hours. (Course in Architecture, fourth year, third term, Th., at 11. Th., F., 1 to 4.) Professor Bradford.
20. **Thesis.** Five credit hours. Original designed to be accompanied with written description, specifications and estimate. (Course in Architecture, fourth year, third term.) Professors Bradford and French.
21. **Architecture of Tall Skeleton-Constructed Buildings.** Two credit hours. (Course in Architecture, fourth year, second term, Th., 11; F., 1 to 3. Professor Bradford.
22. **Architectural Composition.** Two credit hours. (Course in Architecture, third year, first term.) M., at 10; Tu., 9 to 11.
23. **Architectural Designing.** Four credit hours. (Course in Architecture, third year, second term.) M., W., 1 to 5. Professor Bradford.

DRAWING

Office, Hayes Hall, Room 23 or 27

PROFESSOR BRADFORD, ASSOCIATE PROFESSOR FRENCH, MR. LEWIS, MR. MARTIN,
MR. VOSSKUEHLER, MR. TIDBALL.

2. **Lettering.** Three credit hours. Practice and occasional lectures. (Short Course in Industrial Arts, first year; Short Course in Mining, second year, first term, Th., F., 1 to 4. Must be accompanied or preceded by 24 or 27.) Associate Professor French and Mr. Vosskuehler.
5. **Technical Drawing.** Three credit hours. Rules and Methods for making working drawings in machine design to represent correctly form and dimensions for shop use, and for tracing and blue-printing the same. This course must be preceded by Course 35. (Courses in Electrical and Mechanical Engineering, Industrial Arts and Manual Training, third year, first term, M., Tu., 1 to 4, or Th., F., 1 to 4.) Associate Professor French.
7. **Photography.** Two credit hours. Lectures: Optics of photography, chemistry of photography, exposing and developing, printing, lantern slides, orthochromatic photography and some of the applications of photography. Practice: Outdoor, interior, instantaneous and flash-light photography, copying, lantern slides and printing. (Course in Architecture, third year, first term, M., Tu., 1 to 3; Courses in Civil and Mechanical Engineering, third year; Courses in Ceramics and Mining Engineering, fourth year, third term, M., Tu., 1 to 3; or Th., F., 1 to 3.) Elective in first term of Arts Course. Professor Bradford and Mr. Lewis.

10. **Mechanical Drawing.** Three credit hours. Second term. Lectures and practice. Elementary mechanical drawings, lettering and working drawings. W., Th., 1 to 4; M., Tu., 1 to 4; F., 1 to 4 and S., at 11. Associate Professor French.
11. **Mechanical Drawing.** Five credit hours. Lectures and practice. (Course in Clay-working, second year, third term, W., F., at 9. Th., F., 1 to 4. Mr. Vosskuehler.
14. **Pen Drawing.** Two credit hours. Must be preceded by Course 28. (Course in Architecture, second year, first term, M., T., 2 to 4.) Mr. Lewis.
15. **Technical Drawing.** One and one-half credit hours. Second and third terms. Lectures and practice. House-planning. This course preceded by Course 20. M., 1 to 4. Associate Professor French.
16. **Technical Drawing.** Three credit hours. Third term. Lectures and practice. Designing, preparing working drawings and specifications for structures related to agriculture. This course preceded by Course 10. M., Tu., 1 to 4. Associate Professor French.
17. **Practice and Occasional Lectures.** First term. Lectures on color standards, color theory, color harmony, color appearances, tone and graduation, atmosphere and values. Practice in color work, either water or oil color. Elective in Arts Course. Mr. Martin.
18. **Water color painting.** Three credit hours. Must be preceded by Course 28. (Course in Architecture, fourth year, second term, Tu., Th., 8 to 11.) Elective in Arts Course. Mr. Martin.
19. **Water Color Painting.** Two credit hours. Must be preceded by Course 18. (Course in Architecture, fourth year, third term, Tu., Th., 8 to 10.) Elective in Arts Course. Mr. Martin.
20. **Mechanical Drawing.** One and one-half credit hours. First term. Lectures and practice. Elementary mechanical drawing and lettering. Elective in Arts Course. M., 1 to 4. Associate Professor French.
21. **Technical Drawing.** Two credit hours. Must be preceded by Course 34. (Course in Chemical Engineering, third year, first term, Tu., Th., 8 to 10.) Associate Professor French and Mr. Vosskuehler.
22. **Technical Drawing.** Two credit hours. Must be preceded by Course 21. (Course in Chemical Engineering, third year, second term, W., 1 to 5.) Associate Professor French and Mr. Vosskuehler.
23. **Technical Drawing.** Two credit hours. Must be preceded by Course 22. (Course in Chemical Engineering, third year, third term, M., 1 to 5.) Associate Professor French and Mr. Vosskuehler.
24. **Free Hand Drawing.** One credit hour. Pencil drawing from models and plaster casts. Practice and occasional lectures. (Short course in Industrial Arts, first year, first term, W., 1 to 3.) One or two credit hours. Elective in Arts Course. Messrs. Lewis and Tidball.
25. **Free Hand Drawing.** One credit hour. Charcoal from models and plaster casts. Practice and occasional lectures. Must be preceded by Course 24. (All Four-Year Courses and Short Course in Industrial Arts, first year, second term, W., 1 to 3, or S., 8 to 10. One or two credit hours. Elective in Arts Course. Messrs. Lewis and Tidball.
26. **Free Hand Drawing.** One credit hour. Charcoal from plaster casts and still life. Practice and occasional lectures. Must be preceded by 25. All Four-Year Courses and Short Course in Industrial Arts, first year, third term, W. 1 to 3.) One or two credit hours. Elective in Arts Course. Messrs. Lewis and Tidball.

27. **Free Hand Drawing.** Two credit hours. Pencil drawing from models and plaster casts. Practice and occasional lectures. (All Four-Year Courses, first year, first term. Schedule furnished on Registration Day. Course in Clay-working, second year, second term, Th., F., 1 to 3.) Messrs. Lewis, Martin and Tidball.
28. **Free Hand Drawing.** Two credit hours. Charcoal drawing from plaster casts and still life. Practice and occasional lectures. Must be preceded by Course 27. Messrs. Lewis, Martin and Tidball.
31. **Lettering.** One credit hour. Practice and occasional lectures. This course must be preceded or accompanied by Course 27. (All Four-Year Courses, first year, second term. W., F., S., 8 to 10; W., F., 8 to 10; S., 10 to 12; M., 8 to 10; S., 8 to 12; M., W., 8 to 10; S., 10 to 12; M., Tu., 1 to 4; or W., F., 1 to 4.) Associate Professor French and Mr. Vosskuehler.
32. **Lettering.** Practice and occasional lectures. Must be preceded by 31, first term. Two credit hours. (All Four-Year Courses, first year, third term.) Associate Professor French and Mr. Vosskuehler.
33. **Projection Drawing.** Lectures and practice. Orthographic, isometric and oblique projections, and elementary working drawings. This course must be preceded by Course 32. Three credit hours. (Second year, first term.)

Lectures.	Practice.	Course in
M. 8	Tu. Th. 9-11	Architecture.
W. 11	M. F. 10-12	Ceramics.
W. 11	M. F. 10-12	Chemical Engineering.
M. 8	Tu. Th. 9-11	Civil Engineering.
Th. 11	M. F. 10-12	Electrical Engineering.
W. 11	M. F. 10-12	Industrial Arts.
W. 11	M. F. 10-12	Manual Training.
W. 11	M. F. 10-12	Mechanical Engineering.
Tu. 11	Tu. Th. 9-11	Mining Engineering.

Associate Professor French and Mr. Vosskuehler.

34. **Descriptive Geometry.** Lectures and practice. This course must be preceded by 33. Three credit hours. (Second year, second term.)

Lectures.	Practice.	Course in
M. W. 11	F. 10-12	Ceramics.
Tu. Th. 11	F. 10-12	Chemical Engineering.
Tu. Th. 11	F. 10-12	Electrical Engineering.
M. W. 11	F. 10-12	Industrial Arts.
Tu. Th. 11	F. 10-12	Manual Training.
M. W. 11	F. 10-12	Mechanical Engineering.
Tu. Th. 11	Tu. 9-11; or F. 10-12	Mining Engineering.
M. W. 8	Th. 9-11	Short Industrial Arts.

Associate Professor French and Mr. Vosskuehler.

35. **Shades, Shadows and Perspective.** Three credit hours. (Second year, third term.)

Lectures.	Practice.	Course in
W. 11	M. F. 10-12	Ceramics.
Tu. 8	Tu. Th. 9-11	Civil Engineering.
Th. 11	M. F. 10-12	Electrical Engineering.
W. 11	M. F. 10-12	Industrial Arts.
W. 11	M. F. 10-12	Manual Training.
W. 11	M. F. 10-12	Mechanical Engineering.
Tu. 11	Tu. Th. 9-11	Mining Engineering.
M. 8	Tu. Th. 9-11	Short Industrial Arts.

Associate Professor French and Mr. Vosskuehler.

36. **Descriptive Geometry.** Five credit hours. (Courses in Architecture and Civil Engineering, second year, second term, M., W., at 8. Tu., Th., 8 to 11.) Associate Professor French.
37. **Architectural Perspective and Shades and Shadows.** Five credit hours. Lectures and practice. This course must be preceded by Course 36. (Course in Architecture, second year, third term. M., W., at 8. Tu., Th., 8 to 11. Associate Professor French.
38. **Projection Drawing.** Three credit hours. Lectures and practices. Orthographic, isometric and oblique projections and intersections. This course must be preceded by Course 2. (Short Course in Industrial Arts, first year; Short Course in Mining, second year, second term, Th., 1 to 4. F., 1 to 3.) Mr. Vosskuehler.
39. **Draughting and Blue-Printing.** Three credit hours. Practice and occasional lectures. This course must be preceded by Course 38. (Short Course in Industrial Arts, first year; Short Course in Mining, second year; third term, Th., F., 1 to 4.) Mr. Vosskuehler.
40. **Clay Modeling.** Two credit hours. Modeling in clay, ornamental forms from plaster casts, photographs, and nature. This course must be preceded by Course 27. (Course in Architecture, third year, second term, Tu., 1 to 5.) Mr. Lewis.
41. **Clay Modeling.** Continuation of Course 40. Modeling in clay and wax from photographs, nature and original designs. Casts made in plaster and gelatine moulds. This course must be preceded by Course 40. (Course in Architecture, third year, third term, M., Tu., 1 to 3.) Mr. Lewis.

ASTRONOMY

The Emerson McMillin Observatory.

PROFESSOR H. C. LORD, MR. SMITH, MR. MAAG.

1. **General Astronomy.** Two credit hours. Three terms. Lectures and recitations on the general principles of Astronomy. Non-mathematical. Text-book, Young's Manual of Astronomy. Tu., Th., at 1. Professor Lord.
2. **Astronomy, Geodesy and Least Squares.** Three credit hours. Three terms. Lectures on practical Astronomy, supplemented by practice with the instruments of the Emerson McMillin Observatory. M., W., F., at 11. Professor Lord and Mr. Maag.
3. **Meteorology.** Two credit hours. Third term. Lectures on practical meteorology, supplemented by laboratory work in map and chart making and regular observations with the instruments in use by the Weather Bureau. Text-book, Waldo, with daily weather maps issued by the Bureau. Tu., F., at 4. Mr. J. Warren Smith.
7. **Advanced Astronomy.** Lectures, reading and laboratory work from 3 to 5 hours a week. Three terms. Courses will be offered in Theoretical Astronomy or Astrophysics, as students may elect. Students must have had calculus. Hours to be arranged. Professor Lord.
4. **Astronomy, Geodesy and Least Squares.** Three credit hours. Lectures on practical Astronomy, supplemented by practice with the instruments of the Emerson McMillin Observatory. (Course in Civil Engineering. Third year. First term. Lecture M., W., F., at 11. Laboratory hours to be arranged with the students.)
5. Continuation of 4. Three credit hours. Second term, M., W., F., at 11.
6. Continuation of 5. Four credit hours. Third term.

BACTERIOLOGY

ASSOCIATE PROFESSOR MORREY.

1. **Bacteriology.** Two credit hours. First and second terms. The work will consist of lectures on the general principles of bacteriology. The laboratory work will include the preparation of various culture media, general and special (sputum) staining methods, with particular attention to water examination for suspected contamination. Professor Morrey. Required in Courses in Pharmacy. Lectures, M., F., at 10. Laboratory hours to be arranged.
2. **Bacteriology.** Two credit hours. Second term. Lectures and laboratory work on the general facts concerning bacteria and their relation to life processes followed by lectures on their special application to dairy industries. Th., 8 to 12, F., at 11. Dairy Course. Associate Professor Morrey.
4. **Bacteriology.** Three credit hours. Third term. General principles of bacteriology and laboratory practice in preparing culture media, cultures, stains and staining. Veterinary medicine. M., W., 1 to 4.
5. **General.** Four credit hours. Three terms. First term, Morphology, preparation of media, culture and staining methods; second and third terms, special bacteriology along one of the following lines: (a) pathogenic bacteria; (b) agricultural; (c) dairy; (d) sanitary bacteriology and water examination; (e) bacterial chemistry, products of bacterial action, enzymes, ptomaines, toxins, etc. Recitations W., at 11; laboratory, W., Th., F., 1 to 4. Associate Professor Morrey. Elective in Colleges of Arts and Agriculture.
6. **Advanced Bacteriology.** Five credit hours. More advanced work on lines of Course 5. Associate Professor Morrey.
Courses 5 and 6 are open to graduate students. Elective in College of Arts.

BOTANY.

(Botanical Hall.)

PROFESSOR KELLERMAN, ASSOCIATE PROFESSOR SCHAFFNER, MR. YORK, MR. GLEASON AND MISS MCKINLEY.

1. **Elementary Botany.** Five credit hours. Third term. Text-books, Bailey's Botany and Kellerman's Spring Flora. Instead of the Spring Flora, the students may use Britton's Manual. This is a general course introductory to those that follow. It comprises mostly Organography and Vegetable Physiology and a study of the native flora, but some instruction is also given in Ecology and Classification. For the practical or laboratory work, Kellerman's Practical Exercises is used as a guide. The students are required to do some work in the field in both observation and collecting. M., T., Th., F., at 8. Professor Kellerman and Mr. Gleason.
3. **Systematic and Physiological Botany.** Four credit hours. First term. This course deals briefly with Ecology, Physiology, Morphology, and Classification. The tissues and parts of plants that furnish crude drugs are specially studied. The course is given partly in the form of lectures, partly as recitations, and laboratory and field work. Students are required to use Kraemer's Botany and Pharmacognosy. The students are required to add to their herbariums begun in the spring term and thus obtain a full set of the native medicinal plants. The laboratory work gives a thorough drill in the use of the microscope and modern methods in technique. It aims to acquaint the student with the vegetable cell and tissues and their development and functions. Professor Kellerman, Associate Professor Schaffner. Lectures, M., Tu., F., at 10. Laboratory, Th., 10 to 12.

4. **Medical Botany.** Two credit hours. Second term. This course is devoted exclusively to laboratory study of the medicinal plants and vegetable products used in medicine. Kraemer's Botany and Pharmacognosy is mainly followed. Each student is required to make mounts of the materials studied; these he retains for his own use in the future. Some practice is given in detecting adulterations. Associate Professor Schaffner, M., Tu., 10 to 12.
6. **Physiological Botany.** Four credit hours. First term. Text-book, Coulter's Plant Studies. This is intended to be a complete course showing the evolution of plants from the lowest to the highest. Ecology and Physiology are the more prominent subjects, but some instruction is given in Morphology and Classification. The laboratory work includes a general course in histology with practice in experimental physiology. The student receives instruction and practice in handling the microscope and has the opportunity of learning much of the important modern methods in technique. Tu., Th., at 11 and M., 1 to 4, W., 8 to 10. Professor Kellerman, Associate Professor Schaffner.
7. **Economic Botany.** Four credit hours. Second term. This course is, in part, a continuation of Course 6, but the major part of the term is devoted to a botanical study of economic plants and the vegetable products of commerce. The laboratory work includes the microscopic study of fibers, starches, resins, gums and many other important vegetable products. Tu., Th., at 11 and M., 1 to 4, W., 8 to 10. Professor Kellerman, Associate Professor Schaffner.
8. **Vegetable Pathology.** Four credit hours. Third term. The diseases of plants due to inorganic causes are briefly studied, but the main part of the course is devoted to a study of the parasitic fungi most destructive to cultivated plants. The means of their prevention forms the last part of the course. The laboratory and field work deals mainly with the commonest and most injurious parasitic fungi. Each student takes some economic subject or group of parasites for special study during the latter part of the term. Tu., Th., at 11 and M., 1 to 4, W., 8 to 10. Professor Kellerman, Associate Professor Schaffner.
9. **Dendrology.** Two credit hours. First term. Lectures and field work. Kellerman's Forest Trees of Ohio and various reference books are used. The native trees are studied and illustrative collections made. M., W., 10 to 12. Professor Kellerman.
10. **Dendrology.** Two credit hours. Second term. Laboratory work and special investigations on the structure and diseases of timber. Laboratory open daily 8 to 12. Professor Kellerman.
11. **Laboratory Work.** Two to five credit hours. Three terms. Special investigations in Economic Botany and Vegetable Pathology. Laboratory open daily 8 to 12. Professor Kellerman and Associate Professor Schaffner.
13. **Household Botany.** Four credit hours. Third term. This course is planned exclusively for students in Domestic Economy, and is devoted to those phases which directly concern household work and home life. It includes a study of such economic species as culinary, medicinal, starch, oil and fiber-producing plants. Special attention is given to yeast, fermentations, enzymes, bacteria, antiseptics, fungicides, food destroying fungi, and edible and poisonous mushrooms. Recitations Tu., Th., 9; laboratory, Tu., Th., 11 and M., 2 to 4. Professor Kellerman, Associate Professor Schaffner.
16. **Laboratory Work.** Two to five credit hours. Each term. In this course the student undertakes special investigations on medicinal plants, poisonous plants, adulterations, etc. Throughout the year. (Elective.) Professor Kellerman. Consult instructor for time schedule.

7. **Forest Botany.** Four credit hours. First term. This course is open to students who have completed Botany 6, 7, and 8 or 21, 22 and 23. It includes a special study of native and introduced trees and the preparation of a dendrological herbarium. Lectures and Seminars, M., W., at 9; laboratory and field work, Tu., Th., 2 to 4. Professor Kellerman and Associate Professor Schaffner.
18. **Normal and Pathological Histology of Wood.** Four credit hours. Second term. This is a continuation of Course 17 and includes a study of the development of woods, characters of coniferous, hard and soft woods and changes due to attacks of fungi. The students are required to prepare a series of gross and microscopic sections. Seminars, M., W., at 9. Laboratory, Tu., Th., 2 to 4. Professor Kellerman and Associate Professor Schaffner.
19. **Forest Ecology and Pathology.** Four credit hours. Third term. This is a continuation of Course 18, and includes a study of the stem, leaf and root system in relation to the environment; of seed distribution and seedlings; and characteristics and distribution with reference to geological and physiographic, as well as other ecologic conditions. Students are required to prepare a pathological herbarium. Lectures and seminars, M., W., at 9. Laboratory and field work, Tu., Th., 2 to 4. Professor Kellerman and Associate Professor Schaffner.
21. **Ecology.** Three credit hours. First term. Lectures, recitations, laboratory. Coulter's Plant Relations is used the first term and his Plant Structures and department reference books the remainder of the year. Besides the general work in laboratory, lecture room and field, each student is assigned a special subject in Ecology; occasional reports on current botanical literature are also required. Tu., Th., at 9. Laboratory, Tu., 2 to 4. Associate Professor Schaffner.
22. **Morphology and Physiology.** Three credit hours. Second term. Continuation of Course 21.
23. **Systematic Botany.** Three credit hours. Third term. Continuation of Course 22.
24. **Laboratory and Field Work.** Two or three credit hours. Three terms. Daily, 8 to 12. Professor Kellerman and Associate Professor Schaffner.
25. **Laboratory Work in Histology and Physiology.** Three to five credit hours. Three terms. Prerequisite, courses 6, 7, 8 or 21, 22, 23. Laboratory open daily. Associate Professor Schaffner.
26. **Advanced Laboratory Work in Histology and Microtechnique.** Five credit hours. Three terms. Prerequisite courses 6, 7, 8 or 21, 22, 23. Laboratory open daily. Associate Professor Schaffner.
27. **Laboratory and Field Work in Systematic Botany.** Three to five credit hours. Three terms. Prerequisite, courses 6, 7, 8 or 21, 22, 23. Laboratory open daily. Professor Kellerman.
32. **Minor Investigations.** Field and laboratory work. One to three credit hours. Three terms. Prerequisite, courses 6, 7, 8. Daily. Professor Kellerman and Associate Professor Schaffner.
33. **Current Literature.** Prescribed critical reading and indexing. One to three credit hours. Three terms. Prerequisite course 7. Daily. Professor Kellerman.

GRADUATE WORK

28. **Research Work in Systematic Botany.** Five credit hours. Three terms. Prerequisite, courses 6, 7, 8, or 21, 22, 23. Laboratory open daily. Professor Kellerman.

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29. **Research Work in Morphology and Physiology.** Five or ten credit hours. Three terms. Prerequisite course 26. Laboratory open daily. Associate Professor Schaffner.
30. **Monographic Work.** Five or ten credit hours. Three terms. Prerequisite course 27. Laboratory open daily. Professor Kellerman.
31. **Research Work in Ecology.** Five or ten credit hours. Three terms. Prerequisite courses 6, 7, 8, or 21, 22, 23. Laboratory open daily. Associate Professor Schaffner.

CERAMICS

Office, Orton Hall, Room 4

PROFESSOR ORTON, JR., MR. BLEININGER, MR. PURDY.

1. **Ceramic Chemistry.** Five credit hours. First term. This course is open only to those who have completed General Chemistry 12. The student begins the quantitative analysis of salts and chemicals, and later works on limestone and other easy minerals. (Course in Ceramics and Short Course in Clay-working, second year) M., Tu., W., 1 to 4. Mr. Bleininger.
2. **Continuation of Course 1.** Five credit hours. Second term. The student begins the quantitative analysis of clays and complex minerals, working first on samples of known composition, and later on unknown materials. (Course in Ceramics and Short Course in Clay-working, second year) M., Tu., W., 1 to 4. Mr. Bleininger.
3. **Continuation of Course 2.** Five credit hours. Third term. The student completes the ultimate analysis of clays and begins the proximate or "Rational" analysis of clays and pottery bodies, following the methods of Seger. (Course in Ceramics and Short Course in Clay-working, second year.) M., Tu., W., 1 to 4. Mr. Bleininger.
4. **Lectures on Clay Manufacture** (supplemented by frequent recitations.) Five credit hours. The origin, composition and properties of clays and other minerals employed in the clay, glass and cement industries. (Course in Ceramics, third year, first term; Short Course in Clay-working, second year, first term, M., Tu., W., Th., F., at 8.) Professor Orton.
5. **Continuation of Course 4.** Five credit hours. A series of lectures with recitations, on the general principles of the manufacture of clay wares, including the selection and winning of the materials, their preparation and manufacture. (Course in Ceramics, third year; Short Course in Clay-working, second year, second term, M., Tu., W., Th., F., at 8.) Professor Orton.
6. **Continuation of Course 5.** Five credit hours. A series of lectures, with recitations, on the drying, burning and decoration of clay wares, including the preparation of coloring material, glazes, etc. (Course in Ceramics, third year; Short Course in Clay-working, second year, third term, M., Tu., W., Th., F., at 8.) Professor Orton.
7. **Ceramic Chemistry.** Continuation of Course 3. Five credit hours. Second term. Open only to those who have completed that course. The analysis of glasses and glazes, devoting special attention to the use of hydrofluoric acid in silicate analysis, and to the determination of lead and boracic acid. (Course in Ceramics, third year. M., Tu., W., 1 to 4. Mr. Bleininger.
9. **Laboratory Work in Ceramics.** Five credit hours. First term. Open only to those who have completed Courses 3 and 6. The student will first

practice the various methods of measurement of the physical properties of clays, and then will undertake the production of such wares as are made from single clays; then wares made by blending two or more natural clays; and, then, such wares as are made from an artificial body. In each case the bodies made will be burnt and tested. (Course in Ceramics, fourth year). W., Th., F., 1 to 4. Professor Orton and Mr. Purdy.

10. Continuation of Course 9. Five credit hours. Second term. The student will practice on the production of glasses and glazes, beginning with the natural "slip glazes" and taking successively the soft raw-lead glazes, the fritted lead-boracic-acid glazes, and the hard-fire leadless porcelain glazes. In each case the glazes will be made for use on some definite body, and will be made to "fit." (Course in Ceramics, fourth year.) W., Th., F., 1 to 4. Professor Orton and Mr. Purdy.
11. Continuation of Course 10. Five credit hours. Third term. The student will practice on the use of the coloring and opacifying oxides in glazes, and on the production of colors for the decoration of pottery and of body stains. (Course in Ceramics, fourth year.) M., F., 8 to 12. F., 1 to 3. Professor Orton and Mr. Purdy.
12. Lectures on Cement Manufacture. Five credit hours. Second term. The theory of hydraulicity, the compounding, manufacture and testing of natural and Portland cements and hydraulic silicates. Open to students who have had courses 3 and 6. (Course in Ceramics, fourth year.) M., Tu., W., Th., F., at 9. Mr. Bleininger.
15. Thesis. See requirements for graduation, page 90.
16. General Principles of Applied Ceramics. Five credit hours. Third term. A series of lectures on the chemical technology of the clay, glass and cement industries. (Course in Chemical Engineering, fourth year.) M., Tu., W., Th., Fr., at 11. Professor Orton.
17. Practice. Four credit hours. Second term. Drawings and specifications for brick kilns, brick dryers, pottery kilns, gas producers, glass pot-furnaces, glass tanks, cement kilns and burning cylinders. Students will be allowed to specialize along the lines they intend to follow. (Course in Ceramics, fourth year.) M., Tu., 1 to 5. Professor Orton.
18. Laboratory Work on Cement Manufacture. Five credit hours. Third term. Training is given in the analysis of cement materials by the methods in technical use; in the preparation of minerals for cement; in the burning of cement; in the testing of the products, and in the investigation of the general problem of the cement manufacturer. Open to students who have had Ceramics (12). (Alternative with Ceramics (11). Course in Ceramics, fourth year.) M., F., 8 to 12. F., 1 to 3.) Mr. Bleininger.

CHEMISTRY

Office, Chemical Hall

PROFESSOR MCPHERSON, EMERITUS PROFESSOR NORTON, ASSOCIATE PROFESSOR HENDERSON, ASSOCIATE PROFESSOR FOULK, MR. MUMMA, MR. WEBB,
MISS ANDREWS, MR. WILKINSON, MR. STEWART.

- 1 (a). Elementary Chemistry. Three credit hours. Three terms. Arranged for students who have little or no knowledge of chemistry. In the laboratory the student performs an extended series of experiments illustrating the principles of chemistry. Three subdivisions; one lecture, one quiz and three hours laboratory practice weekly throughout

- the year. Lecture Th., at 1. Quiz, Tu., at 1, with laboratory M., 1 to 4 or S., 9 to 12; or quiz W., 11 to 12 with laboratory Tu., 1 to 4. Associate Professor Henderson, Mr. Mumma, Mr. Webb and Department Fellows.
- 1 (b). **Elementary Chemistry.** Three credit hours. Three terms. Arranged for students who offer chemistry as an entrance credit. Three subdivisions; one lecture, one quiz and three hours laboratory practice weekly throughout the year. For schedule see course 1 (a). Associate Professor Henderson, Mr. Mumma, Mr. Webb and Department Fellows.
3. **Elementary Chemistry.** Five credit hours. One hour lecture, one hour quiz and six hours laboratory work weekly. This course is arranged for students in the Short Courses in Ceramics, Mining and Pharmacy. First term, lect. M., at 8; quiz Th., at 8, lab. Tu., W., 1 to 4. Second term, lect. M., at 3; quiz Th., at 8, lab. Tu., W., 1 to 4. Associate Professor Henderson, Mr. Mumma, Mr. Webb, Miss Andrews.
7. **Elementary Chemistry.** Five credit hours. Two terms. Inorganic. Lectures, laboratory and quiz. Laboratory work; first term, experiments upon the non-metals; second term, experiments upon the metals. This course is arranged for students in the College of Engineering. Lect. M., 8 or 3. Quiz, F., 9, 10, 1 or 3. Laboratory, M., Tu., 9 to 12; Th., F., 9 to 12; Th., F., 1 to 4; or W., 8 to 10, S., 8 to 12. Professor McPherson, Mr. Mumma, Mr. Webb, Miss Andrews and Department Fellows.
12. **Qualitative Analysis.** Four credit hours. Third term. This course follows course 7 and is designed for students in Engineering Courses. For hours see Course 7, omitting lecture.
- 12a. **Qualitative Analysis.** Five credit hours. (Course in Clay-working, first year, third term, F., at 9; W., 8 to 10; F., 1 to 4; S., 8 to 11.) Associate Professor Henderson, Mr. Mumma, Mr. Webb, Miss Andrews.
11. **Toxicology.** Four credit hours. Third term. Lectures and recitations. This course treats of poisons—their effects, antidotes and detection. Professor Norton. M., Tu., Th., F., 10 to 11.
17. **Inorganic Preparations.** Three to five credit hours. Third term. Laboratory and recitations. The course includes the preparation and purification of some typical inorganic compounds. Afternoons. Associate Professor Henderson.
20. **Quantitative Analysis.** Three to five credit hours. Three terms. Laboratory, lectures and recitations. This course is designed to give the student a knowledge of the first principles of gravimetric and volumetric analysis. It must be preceded by courses 37 or 12 and must be accompanied by course 40. Lecture, M., at 1. Laboratory, afternoons. Associate Professor Foulk.
40. **Stoichiometry.** One credit hour. Second and third terms. Recitations. Drill in solution of chemical problems. Th., at 11. Associate Professor Foulk.
21. **Advanced General Chemistry.** Two credit hours. Three terms. Lectures and recitations. A thorough study of general inorganic chemistry paying especial attention to chemical theory. The course is arranged as a review and extension of courses 1 and 7. Tu., Th., 9 to 10. Associate Professor Henderson.
34. **Organic Chemistry.** Five credit hours. First and second terms. Two recitations and six hours laboratory work weekly. The laboratory work includes the preparation of some of the important compounds used in medicine. Recitation, Tu., and Th., at 9. Laboratory, first term, M., and Tu., 1 to 4. Second term, Th., and F., 1 to 4. Short course in Pharmacy. Professor McPherson.

8. **Organic Chemistry.** Five credit hours. First term. Two recitations and six hours laboratory work weekly. The laboratory work includes the preparation of typical organic compounds. The course must be preceded by courses 20 and 21 unless special permission is obtained from the instructor in charge. Recitations, Tu., and Th., 10 to 11. Laboratory, afternoons. Professor McPherson.
9. **Organic Chemistry.** Five credit hours. Second and third terms. Continuation of course 8. Recitations, Tu., and Th., at 10. Laboratory, afternoons. Professor McPherson.
32. **Industrial Chemistry.** Four credit hours. First and second terms. Laboratory and lectures. This course includes the study of the processes involved in the various chemical industries. It must be preceded by at least the equivalent of course 20. Tu., Th., at 10; W., Th., 1 to 3. Professor Norton.
15. **Sanitary Analysis.** Four credit hours. Third term. Lectures and Laboratory. A study of the most important chemical methods for the analysis of water. This course must be preceded by course 20 or 38. Lectures, Tu., Th., at 10; Laboratory, afternoons. Associate Professor Foulk.
37. **Qualitative Analysis.** Three to five credit hours. First term. Laboratory, lectures and recitations. This course must be preceded by course 1 and accompanied by course 21 unless by permission of the instructor in charge. One lecture and two to four laboratory periods. One laboratory period equals three clock hours. Laboratory must be taken in full periods. Students electing this course will take courses 38 and 40 in the second and third terms. Associate Professor Foulk.
38. **Quantitative Analysis.** Three to five credit hours. Second and third terms. Laboratory, lectures and recitations. Includes the first principles of gravimetric and volumetric analysis. This course must be preceded by 37 or its equivalent and accompanied by course 40 unless permission be obtained from the instructor in charge. One lecture and two to four laboratory periods. One laboratory period equals three clock hours. Laboratory must be taken in full periods. Associate Professor Foulk.
39. **Quantitative Analysis.** Three to five credit hours. First and second terms. Laboratory, lectures and recitations. This is a continuation of course 38, designed to enlarge the students knowledge of quantitative methods. One lecture and two to four laboratory periods. One laboratory period equals three clock hours. Students electing this course will take course 17 in third term. Associate Professor Foulk.
27. **Advanced Chemistry.** Three to five credit hours. Three terms. Laboratory and reference work. Hours to be arranged with the instructor.
 - (a) **Organic.** Arranged for students who have completed courses 8 and 9. The work includes the further preparation of typical organic compounds, their purification and analysis. Professor McPherson.
 - (b) **Inorganic.** This course is designed for students who have completed course 17, and are desirous of studying the methods of preparation and the properties of a series of inorganic substances; or for those who desire to take some laboratory work on the preparation of the compounds of the rare elements. Associate Professor Henderson.
 - (c) **Analytical.** Special topics such as the critical study of methods, etc. Associate Professor Foulk.

28. **Organic Chemistry.** Two credit hours. Third term. Lectures on special topics. This course must be preceded by courses 8 and 9 and preferably by course 27 (a). Hours to be arranged with the instructor. Professor McPherson.
35. **Rare Elements.** Three credit hours. First term. Lectures and recitations. This course is designed to serve two purposes. It extends the student's knowledge of the facts and principles of chemistry by a study of those elements usually passed by with brief comment in the general courses. It is of considerable value to students of metallurgy because of the increasing use of the rarer elements in the arts and industries. The course must be preceded by the equivalent of course 21. M., W., F., at 8. Associate Professor Henderson.
30. **Physical Chemistry.** Three credit hours. Second and third terms. Lectures and recitations. A general study of the principles of physical chemistry. The course pre-supposes a knowledge of quantitative analysis. M., W., F., at 8. Associate Professor Henderson.
41. **Physical Chemistry.** Three to five credit hours. Three terms. Laboratory. A course in physical-chemical measurements, designed to illustrate the principles and methods of physical chemistry. The course must be preceded by course 30, but students taking course 30 may enter upon the laboratory course at the beginning of the second term and carry it along with course 30. One credit hour equals three clock hours. Afternoons. Associate Professor Henderson.
25. **Historical Chemistry.** Lectures and recitations. Three credit hours. Second term. This course must be preceded by course 21. Hours to be arranged. Professor Norton.
26. **Chemical Seminary.** One credit hour. Three terms. Advanced students meet for the discussion of special topics and current literature. M., at 4.
29. **Research Work, Library and Laboratory Work.** Five to ten credit hours. Three terms. Hours to be arranged with the instructor. Professor McPherson, Associate Professor Henderson, Associate Professor Foulk.
36. **The Teaching of Chemistry.** Three credit hours. Third term. This course is arranged for students who expect to teach chemistry in secondary schools. It includes a general discussion of the equipment of laboratories, methods of teaching and related topics. Each student will spend two hours in conference and three hours in supervising the laboratory work of the freshmen students. The course is open only to advanced students and no student is allowed to take it except by permission of the instructor in charge. Conferences, Tu., and Th., at 9. Professor McPherson.

CIVIL ENGINEERING

Office, Brown Hall, Room 33.

PROFESSOR SHERMAN, PROFESSOR HELLER, ASSOCIATE PROFESSOR ENO, ASSISTANT PROFESSOR BRUNING, MR. MELICK.

1. **Land Surveying.** Six credit hours. Recitations and field work. Johnson's Theory and Practice of Surveying. (Course in Civil Engineering, second year, first term. M., Tu., W., Th., F., at 1, M., 2 to 4; or M., Tu., W., Th., F., at 11, Tu., 2 to 4. Professor Sherman, Associate Professor Eno, Assistant Professor Bruning, Mr. Melick.

2. **Railroad Surveying.** Six credit hours. Recitations and field work. Searle's Field Engineering and Crandall's Transition Curve. (Course in Civil Engineering, second year, third term, M., Tu., W., Th., F., at 1, M., 2 to 4; or M., Tu., W., Th., F., at 11, Tu., 2 to 4.) Professor Sherman, Associate Professor Eno, Assistant Professor Bruning, Mr. Melick,
3. **Topographical Surveying.** Four credit hours. Lectures, field work and drawing. Johnson's Surveying used for reference. (Course in Civil Engineering, third year, first term, M., Th., at 10, S., 8 to 12; or Tu., F., at 10, S., 8 to 12.) Professor Sherman, Assistant Professor Bruning.
4. **Topographical Drawing.** Four credit hours. Platting, pen and tinted work. Reed's Topographical Drawing and Sketching. (Course in Civil Engineering, second year, second term, M., Tu., 1 to 4, W., 1 to 3; or Th., F., 2 to 4, S., 8 to 12.) Associate Professor Eno, Assistant Professor Bruning.
6. **Stereotomy.** Four credit hours. Recitations, drawing and model cutting. Warren's Stereotomy. (Courses in Architecture and Civil Engineering, third year, second term, M., Th., at 10, S., 8 to 12; or Tu., F., at 10, S., 8 to 12.) Professor Sherman, Assistant Professor Bruning.
7. **Bridge Stresses.** Five credit hours. Recitations and lectures. Part 1 of Dubois' Stresses in Framed Structures. (Course in Civil Engineering, third year, third term, M., Tu., W., Th., F., at 8 or 9.) Professor Heller.
8. **Bridge Designing.** Five credit hours. Lectures and drawings. Part II of Dubois' Stresses in Framed Structures and Johnson's Modern Framed Structures used for reference. (Course in Civil Engineering, fourth year, first term, M., Tu., W., Th., F., at 8.) Professor Heller.
10. **Sanitary Engineering.** Five credit hours. Recitations and lectures. Folwell's Sewerage. (Course in Civil Engineering, fourth year, third term, M., Tu., W., Th., F., at 9.) Associate Professor Eno.
14. **Civil Engineering Laboratory.** Cement testing. Two hours credit. (Course in Civil Engineering, fourth year, second term, M., 1 to 5; or Tu., 1 to 5.) Professor Sherman, Associate Professor Eno.
15. **Masonry Construction.** Five credit hours. Recitations and lectures. Baker's Masonry Construction. (Courses in Architecture and Civil Engineering, fourth year, first term, M., Tu., W., Th., F., at 9.) Professor Sherman.
16. **Highways.** Five credit hours. Recitations and lectures. Byrne's Highway Construction. (Course in Civil Engineering, third year, first term, M., Tu., W., Th., F., 8 or 9.) Associate Professor Eno.
17. **Railway Location.** Five credit hours. Recitations and lectures. Wellington's Economic Theory of Railway Location. (Course in Civil Engineering, fourth year, second term, M., Tu., W., Th., F., at 9.) Professor Sherman.
18. **Water Supply.** Five credit hours. Recitations and lectures. Folwell's Water-Supply Engineering. (Course in Civil Engineering, fourth year, third term, M., Tu., W., Th., F., at 8.) Associate Professor Eno.
19. **Trusses.** Five credit hours. Lectures and drawings. (Courses in Architecture, Mining and Mechanical Engineering, third year, third term, M., Tu., Th., F., at 10, W., at 2; or M., Tu., W., Th., F., at 11.) Professor Heller.
21. **Surveying.** Three credit hours. Recitations and field work. Pence and Ketchum's Manual. (Courses in Architecture and Industrial Arts fourth year, third term, M., W., F., at 9.) Professor Sherman, Assistant Professor Bruning, Mr. Melick.

22. **Summer Course in Field Work.** The students are taken into camp in a rough, broken country and given a thorough drill in land and elementary railroad surveying. The course begins the Friday before Commencement Day, and continues four weeks of six days per week, ten hours per day. The work of the student and the discipline of the camp is in the hands of competent instructors. This course must be preceded by Courses 1, 2 and 4. Students conditioned on any of these courses may be admitted at discretion of instructor in charge. (At conclusion of second year of Course in Civil Engineering.) Professor Sherman, Associate Professor Eno, Assistant Professor Bruning, Mr. Melick.
23. **Summer Course in Field Work.** Similar to Course 22. Students work on advanced railroad surveying and topographical surveying. This course must be preceded by Courses 3, 22 and 24. Students conditioned in any of these courses may be admitted at discretion of instructor. (At conclusion of third year of Course in Civil Engineering.) Professor Sherman, Associate Professor Eno, Assistant Professor Bruning, Mr. Melick.
24. **Drawing of Engineering Structures.** Five credit hours. (Course in Civil Engineering, third year, second term, M., Tu., 1 to 5, W., 1 to 3; or W., 3 to 5, Th., F., 1 to 5.) Professor Sherman, Assistant Professor Bruning, Mr. Melick.
25. **Advanced Bridge Work.** Five credit hours. Draw-spans, continuous girders, steel arches, etc. (Option, Course in Civil Engineering, fourth year, second term, M., Tu., W., Th., F., at 8.) Professor Heller.
26. **Steel Construction.** Three credit hours. Steel skeleton construction for tall buildings. (Course in Architecture, fourth year, second term, M., W., F., at 9.) Professor Heller.
27. **Timber and Masonry.** Three credit hours. Lectures on timber and masonry construction. (Courses in Industrial Arts and Mechanical Engineering, third year, last three-fifths of second term, M., Tu., W., Th., F., at 9.) Assistant Professor Bruning.

DOMESTIC ECONOMY

Hayes Hall, Rooms 1, 3 and 10.

DOMESTIC SCIENCE

PROFESSOR STONER.

1. **Food Economics.** Five credit hours. First term.
 - (a) Lecture and recitations. A study of the evolution of society as effected by food conditions. A study of the food principles and their functions; the history, manufacture and use of food materials; the calorie value, the relative nutritive and money value of typical foods of certain classes; Chemistry as applied in the study of the science of nutrition and general dietetics, Dietary studies, etc.

Collateral readings are required.

- (b) Laboratory instruction includes experimental and research work with typical foods of certain classes, and the scientific and practical application of certain principles in food investigation; demonstration, etc. M., W., at 9, and Tu., and W., 1 to 4. Professor Stoner.

2. Food Economics. Five credit hours. Second term.

(a) Lectures and recitations. This includes a continuation of the subject outlined in Course 1, and marketing, etc., calculations in Dietary work, considering varying conditions of life. United States Bulletin Standards are used. Collateral readings are required.

(b) Laboratory work is a continuation of Course 1. M., W., and Tu., 1 to 4. Professor Stoner.

3. Advanced Food Economics. Five credit hours. Third term.

(a) Lectures and recitations. This subject includes advanced research in Food Economics and Dietetics as outlined in Course 2 and a brief study of the preservation of foods, etc. Collateral readings are required.

(b) Laboratory work is a continuation of the advanced work as outlined in Course 2. M., W., and Tu., and W., 1 to 4. Professor Stoner.

4. (a) Preservation of Foods. Five credit hours. One-half term.**(b) Hygiene of Clothing.** Five credit hours. One-half term.**First term.**

(a) Continuation of Course (3). Includes a brief study of the causes of decomposition; a history of the methods employed in the preservation of foods; the economic value of canned foods and the principles involved in canning, preserving, etc. A brief study of the sugars and the food value of fruits, etc.

(b) Includes a study of the structure of fibers and their proper treatment; the properties and cleansing effects of water and soap; the effect of blueings, etc. Experimental work with chemical reagents for the treatment of all kinds of stains, etc., and the use of disinfectants and their properties. Lectures on hygienic clothing and the proper care of all kinds of house linens, etc. Demonstration work in practical laundry methods. Tu., Th., at 11 and Th., F., 1 to 4. Professor Stoner.

10. Household Economics. Two and one-half credit hours. Third term. A consideration of the best location for a house; its hygienic and sanitary construction and arrangement. A consideration of water supplies, sanitary drainage, care of plumbing, etc. Discussion of approved methods of the management of lighting, heating and ventilation systems. A study of the best practical and scientific methods of general household management. Furnishings of the home from the standpoint of utility, sanitation and economy. A study of household accounts and expenditures, etc. Collateral readings are required. Tu., and Th., at 9. Professor Stoner.

11. Therapeutic Diet and Emergency Work. Two and one-half credit hours. Second term. The lectures, demonstrations and practical work are designed to set forth the principles of the dietetic treatment of various diseases and to consider such emergency cases as frequently require prompt treatment in the home, as well as the principles underlying good nursing. Food suitable for infants, invalids and convalescents is prepared in the laboratory work. Parallel readings are required. Tu., at 9 and Th., 1 to 4. Professor Stoner.

12. Theory and Practice of Domestic Science. Three and one-half credit hours. Third term. Elective. This course is designed for young women who desire to take special professional training in Home Economics and who wish to study the educational, economical, scientific and practical principles involved in the application of those subjects in pro-

CATALOGUE

professional work. A study of course of work and equipment in various schools, planning and furnishing of class rooms and laboratories. Lectures, conferences and practical work in teaching, etc. Tu., Th., at 10 and F., 1 to 4. Professor Stoner.

DOMESTIC ART

ASSOCIATE PROFESSOR SECREST.

1. **Hand craft.** Two and one-half credit hours. First term. A systematic study of the principles of plain needle work. The application in various articles. Cord work, and woven and sewed basketry. A study of race development as shown in hand work, and in the evolution of spinning and weaving. Lectures and recitations. W., at 11. Laboratory, Tu., 1 to 4. Associate Professor Secrest.
2. **Textiles.** Two and one-half credit hours. Second term. This course covers a study of fabrics, history, processes of manufacture and the development of these processes, economic value and their effect on social conditions. Also garment making; the taking of accurate measurements, drafting by simple measurements; the choice and economical cutting of materials, and the making of garments. Lectures, recitations, W., at 11; laboratory work, Tu., 1 to 4. Collateral reading. Associate Professor Secrest.
3. A continuation of Domestic Art, 2. Two and one-half credit hours. Third term. W., at 11; Laboratory, Tu., 1 to 4. Associate Professor Secrest.
4. **History of Costume. Design and Dress-Making.** Second term. Costume designing; making of patterns from systems of dressmaking; making waists and skirts, and tailor pressing and construction. Prerequisite, courses 1, 2 and 3. Lectures, demonstrations, recitations Tu., and Th., at 9. Laboratory work, Th., and F., 1 to 4. Associate Professor Secrest.
5. **Household Art and Decoration.** Five credit hours. Third term. Art in every day life; effect of color in the home; healthful and beautiful clothing and furniture. Millinery—Practical construction and artistic trimming of hats. Millinery for all seasons considered. Prerequisite courses 1, 2 and 3. Lectures, discussions, Tu., and Th., at 9; laboratory work, Th., and F., 1 to 4. Associate Professor Secrest.
6. **Theory and Practice of Teaching Domestic Art.** Five credit hours. First term. This course deals with the place of Domestic Art in modern education. A study of courses of work and equipment in various schools, the organization and management of departments, the planning and furnishing of class rooms and laboratories. Lectures, conferences, Tu., and Th., at 10; practical work in teaching, laboratory, W., 1 to 4. Associate Professor Secrest.

In all courses except 1 students provide their own material.

ECONOMICS AND SOCIOLOGY

University Hall, Rooms 17, 18, 20, 29

PROFESSOR HAGERTY, DR. THOMPSON, ASSISTANT PROFESSOR ———

Undergraduate Courses

1. **Elements of Political Economy.** Three credit hours. Three terms. A careful study of the laws of production, exchange, distribution, and consumption of wealth; combined with an analysis of the industrial

actions of men as regards land, labor, capital, money, credit, rent, interest, wages, etc. Text-book, lectures, and individual investigations. In the Economics-History group an option is given. It is desirable that students who do not come well prepared in history and with a fair amount of general knowledge of economic principles should take courses 2, 3, 4, deferring course 1 to their second year. Law students will find this course well adapted to their work. Sec. I, M., W., F., at 8; Assistant Professor _____. Sec. II, M., W., F., at 9; Professor Hagerty. Sec. III, M., W., F., at 2; Assistant Professor _____.

This course should precede all courses except 2, 3, 4.

2. **The History of Industrial Society.** Three credit hours. First term. A general view of the evolution of modern industrial society; involving a study of the manorial and guild systems; of the rise of class interests; the formation of trading companies; land-holding; labor laws; the development of capitalistic enterprise, and the economic legislation, ideas and theories that grew out of these conditions; with special reference to England from the eleventh century. Text book, lectures, and assigned readings. Courses 2, 3 and 4 are open to all students of the University without preliminary requirements. M., W., F., at 9. Assistant Professor _____.
3. **Industrial and Financial History of the United States.** Three credit hours. Second term. A complete survey of American industries, financial resources, and policies. The social aspects of the subject will be treated in order to prepare the student for course 11 the following year. Lectures and assigned readings. M., W., F., at 9. Assistant Professor —.
4. **Transportation.** Three credit hours. Third term. A study of the development and present economic status of roads, canals, and railroads in their relation to industry, society, and to the state. Lectures and assigned readings. M., W., F., at 9. Assistant Professor _____.
5. **Practical Problems; Immigration, Money, Land.** Two credit hours. First term. Tu., Th., at 9. Prerequisites, 1 or 2, 3, 4. Professor Hagerty.
6. **Practical Problems; Railroads, Tariff, Crises.** Two credit hours. Second term. Tu., Th., at 9. Should be preceded by course 5. Professor Hagerty.
7. **Practical Problems; Labor and Capital.** Two credit hours. Third term. Under the head of labor are discussed the problems of co-operation, profit-sharing, strike, eight-hour day, trade unions, etc. Under the head of capital are discussed the problems of municipal ownership of quasi-public utilities, and capitalistic production. Should be preceded by course 6. Tu., Th., at 9. Professor Hagerty.
8. **Economic Geography.** Three credit hours. First term. A study of the extractive industries—agriculture, horticulture, mining, fisheries. The relative importance of the leading nations as determined by their economic resources will be considered. M., W., F., at 11. This course must be preceded by course 1. Assistant Professor _____.
9. **Economic Geography of the United States.** Three credit hours. Second term. Climate, soil, and surface considered as determining resources and their utilization. The relative importance of agricultural, manufacturing, mining, and commercial industries, and their relation to each other will be considered. M., W., F., at 11. Should be preceded by course 8. Assistant Professor _____.
10. **The Distribution of Products.** Three credit hours. Third term. This course will deal with the various methods of marketing goods, including a study of distributing centers, of wholesale and retail institutions, commercial agencies. Boards of Trade, Chambers of Commerce, stock Exchanges, etc. M., W., F., at 11. Should be preceded by 8 and 9. Professor Hagerty.

11. **Sociology.** Three credit hours. First and second terms. Text books, lectures, and original investigations. Through the kindness of the various officers of the Godman Guild House opportunity will be provided students in this course to do practical work at the guild, and the State Board of Charities as well as the officers of the Associated Charities of the city are enlisted in the work of this course. M., W., F., at 1. First term, Giddings' Elements of Sociology. Second term, Henderson's Dependents, Defectives, and Delinquents. This course should be preceded by 1 or 2, 3, and 4. Professor Hagerty.
12. **Primitive Society.** Three credit hours. Third term. This course must be preceded by course 11. Text book, Tyler's Anthropology. M., W., F., at 1. Professor Hagerty.
13. **Public Finance and Taxation.** Two credit hours. First and second terms. This course aims to make the student acquainted with the theory of public revenue and expenditure; and with the leading systems of financial administration throughout the world. Text book, Adams' Finance and lectures. Tu., and Th., at 2. Dr. Thompson.
14. **Money. Credit and Banking.** Two credit hours. Third term. This course involves the history and theory of the subject, a comparative study of the monetary systems, currency, etc., together with the various methods of banking; national banks; clearing house system, etc.; with a critical analysis of proposals for reform. Lectures and collateral readings. Tu., and Th., at 2. Dr. Thompson.
15. **Problems in Sociology.** Two credit hours. Three terms. A study of social forces and social institutions. This course involves a study of the various social institutions, the family, church, state, and the various voluntary societies, social, economic, and benevolent. It will also include a study of the customs, conduct, manners, habits of thought, etc., of peoples. The third term will be devoted to a study of the English social pioneers of the 19th century—Owen, Kingsley, Maurice, Ruskin, etc. This course must be preceded by 11 and 12. Tu., Th., at 10. Professor Hagerty.
16. **Commerce.** Three credit hours. First term, History and Geography of Commerce. Second term, Theory and Technique of Commerce. Third term, Art of Commerce. The aim of this course is decidedly practical and it is suggested that the student might with profit coordinate it with one or more of the following courses: Botany 7; Chemistry 32; Drawing 1; Geology 6; Political Science 4 and 5; and certain courses in Law. This course must be preceded by courses 8, 9 and 10, and should be elected in the third year. Lectures, practical investigations, and reports. M., W., and F., at 11. Assistant Professor ———.
17. **Seminary in Economics.** Two credit hours. Three terms. Students having their major work in Economics must take this course in their fourth year. Open to graduates and advanced undergraduates on permission of the head of the department. The work for the ensuing year 1904-5 is outlined as follows: At each alternate meeting a practical problem will be presented and discussed. The other meetings will take up the study of Classical Economists—English, German, and American. Those contemplating taking the course should arrange for this work in advance and receive their assignments. M., 3 to 5. Professor Hagerty.
18. **Thesis Work.** Two credit hours. Three terms. In this work, as far as possible, only original sources are used, and investigations made from real life. The aim is to set before each student the accomplishment of the task of extending in some degree, however slight, the boundaries of economic and sociological knowledge. Meetings are arranged with the instructor throughout the year. This course may accompany 22. Hours to be arranged.

19. **Business Laws and Forms.** Two credit hours. First and second terms. Text book, lectures, and laboratory work. May be taken in connection with course 16. Tu., Th., at 11. (Omitted in 1904-5.)
20. **Corporation Problems.** Two credit hours. Third term. This course aims at a complete analysis of the subject in both its theoretical and practical aspects. Trusts, mergers, and capitalistic forms of organization in general come under discussion. It follows course 19. Tu., and Th., at 11. (Omitted in 1904-5.)
21. **Economic Thought.** Two credit hours. First term. Text book and lectures. This course must be preceded by 1, and 2, 3, and 4, and should be taken in the third year. Tu., and Th., at 11. Professor Hagerty. (Omitted in 1904-5.)

GRADUATE COURSES.

22. **Advanced Economics.** One to ten credit hours. Three terms. Hours arranged with the students individually. Open to undergraduates only on permission of the head of the department. The aim of these courses is to offer the student an opportunity to specialize to any degree he may desire along the various lines within the field of the department. Elections will naturally fall under the following heads:
 - (a) Theoretical problems. (b) Historical problems. (c) Practical problems. (d) Finance. (e) Commerce. (f) Sociology (Theoretical or Practical). (g) Statistics. (h) Teachers' Course and Training for Fellowship.

When several students elect the same line of work, they may constitute themselves a group and a *Seminary* will be organized as a nucleus for such work. A *Seminary in Sociology* (22f) is announced for the year 1904-5. Students should give notice in advance if they desire to enter this course. Tu., 3 to 5.

EDUCATION

University Hall, Rooms 51 and 54.

ASSOCIATE PROFESSOR MAJOR, ASSISTANT PROFESSOR HAINES.

1. **Educational Psychology.** Three credit hours. Three terms. The aim of this course is to make a thorough study of laws and principles selected from standard psychological literature which seem to bear upon educational theory and practice. Emphasis is laid upon the function of psychology in determining the selection and arrangement of school studies as well as upon its bearing on class-room procedure. The work of the first two terms will be based on James' Talks on Psychology and Adams' Herbartian Psychology supplemented by reference to standard psychological and educational literature. The course will include topics as: The physical basis of mental life, native impulses and interests, habit, association of ideas, interest and attention, imitation and suggestion. The work of the third term will consist of a study of normal mental types, a description of the so-called stages of mental development, special topics in mental pathology. Open to second year students. M., W., F., at 11. Associate Professor Major.
2. **Introduction to Educational Theory.** Two credit hours. Three terms. The chief purpose of this course is to enable the student to understand the nature of present day educational problems and to arouse interest in their critical study. An effort is made also to establish a body of educational principles derived from ethics, psychology, biology and sociology. The following topics will indicate the general nature of the course: Education as a science; the aim of education; educa-

tional values; the relation of psychology to education; the meaning and value of child-study; the learning process; stages of mental development; the selection and arrangement of school studies; prescribed and elective courses of study. T., Th., at 10. Associate Professor Major.

3. **History of Education.** Three credit hours. Three terms. This course gives an account of the most important educational movements and systems beginning with the oldest culture nations and concluding with a study of the present trend of education in this country and Europe. Constant reference is made to the influence of religious, political and social ideas in controlling a people's educational aims and methods; Greek education; the rise of the universities; the Renaissance; the Reformation and education; the rise and development of humanism; the development of modern theories and systems of education. Should be preceded or accompanied by European history, 1, 2, 3. M., W., F., at 2. Assistant Professor Haines.
4. **Child Study.** Two credit hours. Three terms. The first part of this course is designed to present the general facts and laws of physical growth and development with special reference to school hygiene. The following topics indicate the nature of this part of the course: Laws of bodily development, development of the nervous system, defects of sight and hearing, the fatigue problem. Principal references: Donaldson's *Growth of the Brain*, Warner's *Study of Children*, Rowe's *Physical Nature of the Child*. The second part of the course aims to describe the characteristic features of child mind, to study the principles and empirical data of mental development with special reference to educational theory and practice. The course includes a study of typical definitions of mental development, the theory of nascent periods, children's imagery, types of children, mental defects and abnormalities, the value of laboratory tests of mental ability. Principal references: *Pedagogical Seminary*; *Trans. Ill. Soc. for Child Study*; *Educational Review*; Sully's *Studies of Childhood*; Barnes' *Studies*; Baldwin's *Mental Development*. M., F., at 10. Associate Professor Major.
5. **Science of Education.** Three credit hours. Three terms. This course aims to afford a wide view of the science of education, endeavoring to develop a consistent theory of education. It is especially intended for students who expect to deal with the larger problems of education which confront the superintendent or principal. It means to widen the horizon and at the same time orient the student in this larger world. But all teachers should have this enlarged view and intelligent grasp of the fundamental problems of education, to make them masters of their craft. It should help all specialists to see the place of their particular grade or subject in the developmental process of the individual pupil. It is an essential part of the professional training of the teacher. Philosophy 18, 19, and education 1, 2 or 3 must precede this course. Lectures, readings and reports. M., W., F., at 11. Assistant Professor Haines.
6. **Modern Educational Systems.** Two credit hours. Three terms. A comparative study of the educational systems of Germany, England and France. The course will deal briefly with the history of these systems, but chiefly with their present organization. The interest centers in the secondary education of those countries, and so the course will appeal chiefly to prospective high school teachers, or those who will be called upon to organize and develop high schools. Russell's *German Higher Schools*, Balfour's *Educational Systems of Great Britain and Ireland*, and the Reports of the U. S. Commissioner of Education constitute the essential literature for the course. Lectures, reading and reports. Tu., Th., at 2. Associate Professor Major.
7. **Secondary Education.** Two credit hours. Three terms. The history, curriculum, organization and administration of secondary education in the United States. After making a short study of the historical

development of secondary education in the United States, the course will be concerned mainly with the problems of the public high school and will include a consideration of the various functions of the high school; the educational value and arrangement of the high school studies now generally accepted; the demand for changes in the contents and organization of the high school curriculum. A study of the Reports of the Committee of Ten and of the Committee on College Entrance Requirements will form an important feature of the course. The course is intended primarily for those who are preparing to become high school teachers or principals. Open to third and fourth year students, and graduates. T., Th., at 11. Associate Professor Major.

8. **Educational Classics.** Two credit hours. Three terms. The aim of this course will be to make a critical and comparative study of such classics as Plato's Republic, Rousseau's Emile, Pestalozzi's Leonard and Gertrude, Froebel's Education of Man, Herbart's Science of Education, Spencer's Education. Lectures, readings and reports. M., W., at 2. Associate Professor Major.
9. **Seminar.** Two credit hours. Three terms. Designed for students who wish to investigate special problems in education. Members of the course will work independently, but will meet once a week for general discussion of some subject under investigation. Open only to fourth year students and graduates who have worked extensively either in philosophy or education. F., 2 to 4. Associate Professor Major.

ELECTRICAL ENGINEERING

Office, Electrical Building, Room 8

PROFESSOR CALDWELL, ASSISTANT PROFESSOR FISH.

6. **Electrical Engineering.** Two credit hours. Lectures on direct and alternating circuits, dynamo machinery, transformers, accumulators and their applications. (Courses in Civil, Mechanical and Mining Engineering, Industrial Arts and Manual Training, fourth year, first and second terms; Course in Chemical Engineering, fourth year, first term. M., Th., at 10.) Professor Caldwell.
7. **Electrical Engineering.** Two credit hours. Laboratory work on the subjects treated in Course 6, which it accompanies. Fourth year. Assistant Professor Fish.

First term—S. 8-12. Course in Chemical Engineering.
W. 1-5. Course in Industrial Arts.
W. 1-5. Course in Manual Training.
W. or Th. 1-5. Course in Mechanical Engineering.
M. 1-5. Course in Mining Engineering.

Second term—M. or W. 1-5. Course in Civil Engineering.
Th. 1-5. Course in Industrial Arts.
Th. 1-5. Course in Manual Training.
Th. 1-5 or S., 8-12. Course in Mechanical Engineering.
W. 1-5. Course in Mining Engineering.
8. **Direct Current Dynamo Machinery.** Four credit hours. Generators and motors, their theory, construction and operation. Lectures, recitations and problems. (Course in Electrical Engineering, third year, second term, M., Tu., Th., F., at 9.) Professor Caldwell.
9. **Elementary Dynamo Laboratory.** Four credit hours. Handling and testing of circuits, generators, motors, etc. (Course in Electrical Engineering, third year, third term, W., Th., 1 to 5; or F., 1 to 5, S., 8 to 12.) Assistant Professor Fish.

10. **Alternating Current Circuits and Machinery.** Three credit hours. Single phase and polyphase generators, motors, transformers and other apparatus. Lectures, recitations and problems. (Course in Electrical Engineering, fourth year; first term, M., W., F., at 11; second term, M., W., F., at 8.) Professor Caldwell.
11. **Advanced Dynamo Laboratory.** Three credit hours. Continuation of the work begun in Course 9, together with alternate current apparatus, telephone apparatus, accumulators, lamps, etc. (Course in Electrical Engineering, fourth year; first term, Tu., or F., 10 to 5; second term Tu., or F., 10 to 5; third term, M., 10 to 5, or Tu., 10 to 5.) Assistant Professor Fish.
12. **Electrical Transmission and Distribution.** Two credit hours. Systems, operation and apparatus. (Course in Electrical Engineering, fourth year, second term, Tu., Th., at 8.) Professor Caldwell.
13. **Application of Electricity.** Five credit hours. Brief treatment of the application of electricity to illumination, railway work, telephone, electro-metallurgy, mining, etc. The seminary method is used in this course to the extent of each student writing one paper on some assigned subject, and reading the same before the class. (Course in Electrical Engineering, fourth year, third term, M., Tu., W., Th., F., at 8.) Professor Caldwell.
14. **Electrical Design.** Four credit hours. Includes wiring plans, dynamos, transformers, distribution, etc. (Course in Electrical Engineering, fourth year; second term, M., Tu., 1 to 5; third term, W., 1 to 3, Th., F., 1 to 4). Professor Caldwell.

ENGLISH

(Office, Rooms 44 and 31, University Hall.)

PROFESSOR DENNEY, PROFESSOR BARROWS, ASSOCIATE PROFESSOR TAYLOR, ASSISTANT PROFESSOR GRAVES, ASSISTANT PROFESSOR MCKNIGHT, MISS MOLLOY, MISS WEAVER, MISS JACKSON.

UNDERGRADUATE COURSES.

1. **Paragraph Writing and Analysis of Prose.** (Formerly Rhetoric 1.) Two credit hours. Three terms. The course includes two exercises weekly, in the writing of short themes, the outlining and composition of essays and speeches, and the study of illustrative texts for structure and form. Text-books, Scott and Denney's Paragraph Writing, Cairn's Forms of Discourse. M., Th., or Tu., F., at 8, Tu., Th., at 9, Tu., Th., at 10, M., F., at 11. Professor Denney, Associate Professor Taylor, Assistant Professor Graves, Assistant Professor McKnight, Miss Molloy, Miss Weaver, Miss Jackson.
2. **Expository Writing.** (Formerly Rhetoric 2.) Two credit hours. First term. In this course, practice is afforded in composing the various types of the essay, specimens of which are analyzed by the class. Text-book, Buck & Woodbridge's Expository Writing. M., or Tu., and Th., or F., at 10; Tu., Th., at 11; W., F., at 1. Prerequisite, course 1. Professor Denney, Assistant Professor McKnight.
3. **Brief Making and Written Argumentation.** (Formerly Rhetoric 3.) Two credit hours. Second and third terms. The course includes a study of the principles of logical analysis, evidence and argumentation; practice in writing briefs of noted speeches (Baker's Specimens); and in preparing original briefs with written arguments. Prerequisite, course 1. M., or T., and Th., or F., at 10; Tu., Th., at 11; W., F., at 1. Professor Denney, Assistant Professor McKnight.

5. **Advanced Composition.** (Formerly Rhetoric 10.) Two credit hours. Second and third terms. This course affords practice in one or more of the forms of composition studied in courses 1 and 2, (exclusive of argumentation.) Prerequisite, courses 1 and 2. Tu., Th., at 11. Professor Denney, Assistant Professor Graves.
7. **Introduction to English Literature.** (Formerly English Literature 1.) Three credit hours. Three terms. Moody and Lovett's English Literature; literary analysis and interpretation; critical study of selections beginning with those in Palgrave's Golden Treasury. No prerequisite course. M., W., F., at 8 and at 9. Professor Barrows.
8. **General Survey of English Literature.** Three credit hours. Three terms. An extensive reading course intended especially for those whose scheme of work permits no further courses in English. No prerequisite course. M., W., F., at 11. Assistant Professor Graves.
10. **Spenser to Milton.** (Formerly English Literature 2.) Three credit hours. First term. The course includes a special study of the Elizabethan lyrics. Prerequisite, course 7 or 8. M., Tu., Th., at 10. Professor Barrows.
11. **Dryden to Pope.** (Formerly English Literature 3.) Three credit hours. Second term. Especial attention is given to the work of Swift. Prerequisite, course 7 or 8. M., Tu., Th., at 10. Professor Barrows.
12. **The Age of Johnson.** (Formerly English Literature 4.) Three credit hours. Third term. The course includes a study of the Eighteenth Century Essayists. Prerequisite, course 7 or 8. M., Tu., Th., at 10. Professor Barrows.
14. **Burke to De Quincey.** Four credit hours. First term. This course with 15 and 16 comprises a study of the dominant ideas of the 19th century as embodied in its prose exclusive of fiction. Prerequisite, course 7 or 8. M., Tu., W., Th., at 9. Professor Denney.
15. **Carlyle, Ruskin, Newman.** Four credit hours. Second term. Prerequisite, course 7 or 8. M., T., W., Th., at 9. Professor Denney.
16. **Arnold, Pater, Stevenson.** Four credit hours. Third term. Prerequisite, course 7 or 8. M., Tu., W., Th., at 9. Professor Denney.
18. **Shelley and Wordsworth.** (Formerly English Literature 6.) Three credit hours. First term. Prerequisite, course 7 or 8. M., W., F., at 9. Associate Professor Taylor.
19. **Tennyson.** (Formerly English Literature 18.) Three credit hours. Second term. Prerequisite, course 7 or 8. M., W., F., at 9. Associate Professor Taylor.
20. **Browning.** (Formerly English Literature 18.) Three credit hours. Third term. Prerequisite, course 7 or 8. M., W., F., at 9. Associate Professor Taylor.
22. **The English Bible: Pentateuch and the Earlier Histories.** (Formerly English Literature 7.) One credit hour. Three terms. Th., at 8. Professor Barrows.
23. **The English Bible: The Later Histories, Poetry, Prophecies.** (Formerly English Literature 8.) One credit hour. Three terms. No prerequisite course. Not offered until 1905-6. Professor Barrows.
24. **The English Bible: The New Testament.** (Formerly English Literature 9.) One credit hour. Three terms. No prerequisite course. Not offered until 1906-07. Professor Barrows.

26. **History of the English Language.** (Formerly Rhetoric 15.) Two credit hours. First and second terms. Text-book, Champney's History of English. No prerequisite course. Not offered until 1905-6. Assistant Professor McKnight.
27. **English Words.** Two credit hours. Third term. Text book, Greenough and Kittredge's Words and Their Ways in English Speech. No prerequisite course. Not offered until 1905-6. Assistant Professor McKnight.
28. **Old English Prose and Poetry.** (Formerly Rhetoric 16.) Two credit hours. Three terms. Text-book, Sweet's Anglo Saxon Reader. No prerequisite course. Tu., Th., at 9. Assistant Professor McKnight.
30. **Poe-Chaucerian Literature.** (Formerly Rhetoric 18.) Three credit hours. First term. Middle English Prose and Poetry; evolution of modern verse. Prerequisite, course 7 or 8. M., W., F., at 11. Assistant Professor McKnight.
31. **Chaucer.** (Formerly English Literature 13.) Three credit hours. Second term. Prerequisite, course 7 or 8. M., W., F., at 11. Assistant Professor McKnight.
32. **Arthurian Story.** (Formerly Rhetoric 17.) Three credit hours. Third term. Arthurian story in English will be studied in connection with the related stories in Celtic and in French. Prerequisite, course 7 or 8. M., W., F., at 11. Assistant Professor McKnight.
35. **Shakespeare and the Elizabethan Drama.** (Formerly English Literature 10.) Three credit hours. Three terms. This course includes, besides the study of plays, lectures on the development of the drama. Prerequisite, course 7 or 8. M., W., F., at 3. Professor Barrows.
36. **The Drama Since Shakespeare.** (Formerly English Literature 15.) Three credit hours. First and second terms. Not offered until 1905-6. Prerequisite, course 7 or 8. Professor Barrows.
37. **Milton: Epic and Prose.** (Formerly English Literature 14.) Three credit hours. Third term. Not offered until 1905-6. Prerequisite, course 7 or 8. Professor Barrows.
38. **The History of Prose Fiction.** Four credit hours. First term. Not offered until 1905-6. Prerequisite, course 7 or 8. Professor Barrows.
39. **The Short Story.** (Formerly Rhetoric 4.) Four credit hours. First term. Some practice in composition will be afforded. Prerequisite, courses 2, and 7 or 8. M., W., Th., and F., at 2. Assistant Professor Graves.
40. **The Novel.** (Formerly English Literature 11.) Four credit hours. Second and third terms. Prerequisite, course 7 or 8. M., W., Th., F., at 2. Associate Professor Taylor.
42. **Literary Types.** (Formerly English Literature 17.) Three credit hours. First and second terms. A theory of criticism is developed and applied to the dramatic, epic and lyric types in both verse and prose. Prerequisite, course 7 or 8. M., W., F., at 1. Associate Professor Taylor.
43. **Poetics.** (Formerly Rhetoric 6.) Three credit hours. Third term. Some practice in verse writing is afforded. Text-book, Alden's English Verse. Prerequisite, course 7 or 8. M., W., F., at 1. Assistant Professor Graves.
45. **American Literature.** (Formerly English Literature 12.) Three credit hours. First term. Prerequisite, course 7 or 8. M., Th., F., at 10. Associate Professor Taylor.

46. **Current Literature.** (Formerly English Literature 19.) Three credit hours. Second and third terms. Prerequisite, course 7 or 8. M., Th., F., at 10. Associate Professor Taylor.
48. **Teachers' Course.** (Formerly Rhetoric 13 and English Literature 21.) Two credit hours. Three terms. Prerequisite, courses 1, 2, and 7 or 8. Not given until 1905-6.
49. **Seminary in Rhetoric.** (Formerly Rhetoric 12.) Two credit hours. Three terms. Topic for 1904-5, Development of Rhetorical Ideas. M., 4 to 6. Assistant Professor McKnight. Topic for 1905-6, the History of Rhetoric. Professor Denney.
50. **Seminary in Literary Criticism.** Two credit hours. Three terms. Not given until 1905-6. Topic for 1905-6, Shakespeare's Earlier Comedies. Professor Denney.

GRADUATE COURSES.

For admission to major graduate work in this department the student should have a reading knowledge of two languages besides English and should have such an acquaintance with English Language and Literature as is represented by two years of undergraduate study. He should also be familiar with the outlines of English history.

Courses 28, 30, 31, 32, 42, 43, 45, 46, 48, 49, and 50, described above, though primarily for undergraduates, are open to graduate students as minor work. The major courses are as follows:

- (a) **Theories of Rhetoric.** Individual work in the investigation of rhetorical problems, or of topics in the history and development of rhetorical theory. Professor Denney.
- (b) **Old and Middle English Philology.** Selected works studied for the acquisition of methods of philological research. The topic investigated in 1903-4 was the Rise of Romance and the Development of the Court Allegory. Assistant Professor McKnight.
- (c) **Literary Problems.** A series of studies of the fundamental problems of criticism. Lectures followed by investigation of special topics. Professor Barrows.
- (d) **Comparative Criticism.** The development of literary types. The types in English Literature being referred to their models in classic or romance literature. The course requires a reading knowledge of French and German and some acquaintance with Greek and Roman literature. In 1903-4 the types studied were the pastoral, the romance, and the novel. Associate Professor Taylor.

EUROPEAN HISTORY.

University Hall, Rooms 7, 36.

PROFESSOR SIEBERT, DR. McNEAL.

The courses of instruction in this department are divided into three groups: (1) the general courses in Ancient, Continental and English history (courses 1, 2 and 3; 14; 5 and 6); (2) the advanced courses, dealing in a fuller way with special periods and phases of the subject (courses 4, 7, 8, 9, 10, 11, 12, 15, 16, and 18); and (3) those courses intended to acquaint the student with the principles and method of research (Courses 20 and 21).

The general courses are intended to meet the needs of four classes of students: (a) those desiring only a general knowledge of European history; (b) those looking forward to advanced work in the department; (c) those study-

ing Greek and Latin (see Courses 5 and 6); and (d) those expecting to specialize in the line of American history, or to enter upon a legal or business career. For the fourth class courses 1, 2, 3, 4 and 14 are especially recommended

The advanced courses are intended to acquaint those qualified to enter them with an intimate knowledge of the special period or subject concerned, to give the student a comprehensive acquaintance with the best authorities and practice in the written and oral exposition of assigned topics. Courses 1, 2 and 3 must precede these advanced courses, except that Course 4 should be preceded by Course 14.

1. **The Early Middle Ages.** Three credit hours. First term. The history of Europe to 1300, including the establishment of the mediæval empire, the formation of the separate states, the rise of the Christian church, the crusades, and the conflict of the empire with papacy. Lectures, recitations and assigned readings. Robinson, *History of Western Europe*. Two sections. Sec. I: M., W., F., at 9, Professor Siebert. Sec. II: M., W., F., at 1, Dr. McNeal.
2. **Renaissance.** Three credit hours. Second term. The history of Europe from 1300 to 1500, giving an account among other things of the revival of learning, the revival of commerce and industry, and the voyages of discovery. Lectures, recitations and assigned readings. Robinson, *History of Western Europe*. Two sections. Sec. I: M., W., F., at 9, Professor Siebert. Sec. II: M., W., F., at 1, Dr. McNeal.
3. **Modern Europe.** Three credit hours. Third term. A general survey of European history from 1500 to the present time, including the Reformation, the rise of Russia and Prussia, the English and French revolutions, and the unification of Italy and Germany. Lectures, recitations and collateral readings. Robinson, *History of Western Europe*. Two sections. Sec. I: M., W., F., at 9, Professor Siebert. Sec. II: M., W., F., at 1, Dr. McNeal.
4. **Political and Constitutional History of England.** Three credit hours. Three terms. An advanced course. First term—Germanic origins of the English nation; Anglo-Saxon institutions; effects of the Danish and Norman invasions. Second term—Early history of Parliament; the church in England; the Reformation and Puritan revolution. Third term—The restoration of the Stewarts; the establishment of a Protestant line of rules; the rise of party government; parliamentary reform, etc. It must be preceded by Course 14 or Courses 1, 2, 3. M., W., F., at 11. Professor Siebert.
5. **Political and Social History of Greece to the Roman Conquest.** Two credit hours. First term. A short course introduced by a few lectures on ancient oriental history. Lectures text-book and assigned readings. Botsford's *History of Greece*. Tu., Th., at 9. Dr. McNeal. Given biennially. Omitted in 1905-1906.
6. **Roman History and Institutions to the End of the Republic.** Two credit hours. Second and third terms. This course together with Course 5, is intended to meet the needs of students taking Latin and Greek. Lectures, recitations and special reports. Tu., Th., at 9. Dr. McNeal. Given biennially. Omitted in 1905-1906.
7. **Period of the Protestant Reformation.** Three credit hours. First term. Open to those who have had Courses 1, 2 and 3, or 14. This is an advanced course, and deals with reformational movements from the time of the death of Dante (1231), to the Council of Trent (1562). Lectures, collateral reading and investigations. M., W., F., at 2. Professor Siebert.
8. **The French Revolutionary and Napoleonic Periods, 1789-1815.** Three credit hours. Second term. Open to students who have had Courses 1, 2, and 3, or 14. An intensive study of the causes and effects of the French

Revolution, and of Napoleon's struggle with Europe. Lectures, collateral reading and special reports. M., W., F., at 2. Professor Siebert.

9. **History of Europe in the Nineteenth Century.** Three credit hours. Third term. Open to students who have had Courses 1, 2, and 3, or 14. Lectures, assigned readings and topical reports. M., W., F., at 2. Professor Siebert.
10. **History of European Colonies.** Three credit hours. First and second terms. Open to students who have had Courses 1, 2 and 3, or 14. A study of the colonial enterprises of Portugal, Spain, England, the Netherlands, France and Germany. This course begins with the age of geographical discoveries and traces the evolution of colonies to the present time. Lectures, assigned readings and investigations. M., Tu., F., at 10. Professor Siebert. Given biennially. Omitted in 1904-1905.
11. **The Eastern Question.** Three credit hours. Third term. An advanced course treating of the relations of European powers with Turkey and Russia by means of lectures, topical reports and required readings. Open to students who have had Courses 1, 2 and 3. Course 9 gives a special preparation for this course. M., Tu., F., at 10. Professor Siebert. Given biennially. Omitted in 1904-1905.
12. **Constitutional History of France.** Two credit hours. Three terms. From the ninth to the middle of the eighteenth century. Origin and development of the feudal system in France, growth of the French Monarchy, French institutions before the Revolution. Lectures, required reading, reports. Students must be able to read French. Courses 1, 2, 3 prerequisite. Tu., Th., at 9. Dr. McNeal. Given biennially. Omitted in 1904-1905.
14. **Narrative History of England.** Three credit hours. Three terms. General course in the History of England. Lectures, text-book and reports. M., W., F., at 8. Dr. McNeal.
15. **History of North-Eastern Europe.** Two credit hours. First and second terms. This course will deal with Denmark, Sweden, Poland and Russia from the fifteenth century. Courses 1, 2 and 3, or 14 are prerequisite. Lectures and reports. Tu., Th., at 9. Professor Siebert. Given biennially. Omitted in 1905-1906.
16. **Europe and the Asiatic Question.** Two credit hours. Third term. Origin and development of the interests of the various European states in the Far-East. Lectures and reports. Courses 1, 2 and 3, or 14 are prerequisite. Tu., Th., at 9. Professor Siebert. Given biennially. Omitted in 1905-1906.
18. **History of Mediaeval Civilization.** Three credit hours. Three terms. A study of institutions and customs in Western Europe during the Middle Ages; primitive Germanic conditions, social and economic features of the Frankish Kingdom and Empire, monasticism, origins of feudalism, etc. Lectures, readings, reports. M., W., F., at 3. Courses 1, 2, 3 prerequisite. Dr. McNeal. Given biennially. Omitted in 1904-1905.
- 19a. **The Germanic Invasions.** Three credit hours. First term. Early history of the Germanic tribes; invasions of the Roman Empire; history of the tribal kingdoms; the history of Western Europe from the second to the seventh centuries. Lectures, readings, reports. M., W., F., at 3. Courses 1, 2, and 3, or 14 prerequisite. Dr. McNeal. Given biennially. Omitted in 1905-1906.
20. **Historical Method and Documentary Sources of the Middle Ages.** Two credit hours. Three terms. Study of special problems and topics. An outline of the principles of historical research and criticism; the bibliography of history; a study of mediaeval sources. German tribal laws, capitularies, charters, formulæ, etc. Courses 1, 2, 3, or 14 prerequisite. Hours to be arranged. Dr. McNeal.

21. **Investigations of Special Topics in Modern European History.** Two credit hours. Three terms. Open to those students who are able to satisfy the instructor as to their fitness to pursue the course. Hours to be arranged. Professor Siebert.
- 19b. **Charles the Great.** Three credit hours. Second term. Origins and early history of the Carolingian house; career of Charles; institutions of his empire; the Carolingian renaissance; dissolution of the Carolingian empire; Western Europe during the eighth and ninth centuries. M., W., F., at 3. Courses 1, 2 and 3, or 14 prerequisite. Dr. McNeal. Given biennially. Omitted in 1905-1906.
- 19c. **The Feudal System.** Three credit hours. Third term. The conflict of the Empire and the Papacy; the Crusades; study of feudalism and the mediaeval church; Western Europe from the eleventh to the thirteenth centuries. M., W., F., at 3. Courses 1, 2 and 3, or 14 prerequisite. Dr. McNeal. Given biennially. Omitted in 1905-1906.

FRENCH.

(See Romance Languages and Literatures.)

GEOLOGY.

Orton Hall, Rooms 1, 4, 5, 7 and 13.

PROFESSOR PROSSER, PROFESSOR BOWNOCKER.

1. **Physiography.** Five credit hours. The topographic features of the earth's surface and the agencies producing these. The atmosphere, climate, etc. Oceans, rivers and lakes. Recitations, lectures, map work. (Short Courses in Agriculture, Mining and Clay Working, first year. Short Course in Industrial Arts, second year, third term. M., Tu., W., Th., F., at 11.) Professor Bownocker.
2. **General Geology.** Five credit hours. Structural, historical and dynamical geology. Four hours lectures and recitations, and two hours laboratory and field work. In the laboratory, Dana's *Manual of Geology*, the Ohio Geological Reports and characteristic fossils will be studied. In the field, specimens will be collected, sections measured, formations identified, and the student given an idea of the methods of work pursued by a field geologist. Field trips, mainly on Saturdays. (Long courses in Agriculture and Horticulture, and courses in Architecture, Ceramics, Civil and Mining Engineering, fourth year; Short course in Clay-Working, second year, first term, M., Tu., W., Th., F., at 11.) Professor Prosser.
4. **Elementary Geology.** Five credit hours. Lithological, dynamical, structural and historical geology. Recitations, lectures, laboratory work. (Short Course in Mining, second year, second term. M., F., at 10. Tu., Th., at 9 and W., at 4. Professors Bownocker and Prosser.
5. **Applied Geology.** Three and one-half credit hours. Second term. The common minerals and rocks composing the earth's crust, their disintegration and decomposition. Soils, their origin and classification; the soils of the United States and especially those of Ohio. Fuels, coal, oil and gas. Building stones, limes and cements. Iron and the most useful metals. Lectures, M., Tu., W., at 8; laboratory, Th., at 8. Professor Bownocker.
6. **Economic Geology.** Three credit hours. Lectures and assigned reading. The nature of ores, their classification and origin. The metals of the

United States, their distribution, abundance, modes of occurrence and origin. The non-metals, coal, oil, gas, clay, lime, cement, building stone, etc. In the discussion of the non-metals emphasis will be laid on the products of Ohio. (Courses in Architecture, Ceramics, Civil and Mining Engineering, fourth year; Short course in Clay-Working, second year, second term. M., W., F., at 11.) Professor Bownocker.

7. **Petrography.** Two credit hours. Lectures and laboratory work. The igneous, sedimentary, and metamorphic rocks—their origin and classification. The volcanic rocks of the Western United States—their composition, structure and alteration products. The object of this course is to give the student a practical acquaintance with rocks. (Course in Mining Engineering, fourth year, second term, Tu., at 9 to 11; Th., at 9.) Professor Bownocker.
11. **Inorganic Geology.** Three credit hours. First term. Including lithological, dynamical and structural geology. Lectures, recitations, laboratory work and field exercises. The lectures are illustrated by lantern views, maps, models and specimens. M., W., F., at 9. Open to all. Professor Bownocker.
12. **Historical Geology.** Three credit hours. Second term. A general course in paleontological and stratigraphical geology, with laboratory study of Dana's Manual of Geology, the Ohio Geological Reports and identification of characteristic fossils. The development of organisms and the classification and distribution of the geological formations are considered. Lectures, recitations and laboratory work. The lectures are illustrated by lantern views, maps and specimens. Prerequisite, course 11. M., W., F., at 9. Professor Prosser.
13. **Field Geology.** Three credit hours. Third term. Lecture, field and laboratory study of the geological formations readily accessible from Columbus. This course is intended to acquaint the student with the ordinary methods of field investigation, and involves the collection and identification of specimens, the measurement of geological sections and the preparation of a report describing the region studied. Prerequisite, courses 11 and 12. Field trips Saturdays. Laboratory open M., Tu., W., Th., F., 8 to 12 and 1 to 4. Professor Prosser.
14. **Paleontology.** Two to five credit hours. Three terms. Careful training in systematic classification which may be used in the philosophical study of the development of plant and animal life, or as a means of becoming acquainted with the fauna and flora that characterize the various geological formations. At first the student devotes some time to conchology, studying recent shells in which the characters used in classification are well preserved, and after this preliminary work, fossils are studied. Fossils afford the most reliable data for identifying and correlating geologic formations, and the critical study of faunas is a field especially adapted to independent research. Laboratory, museum, and field work. This course may be undertaken at the beginning of the second or third term. Prerequisite or accompanying courses, 11 and 12. Laboratory open M., Tu., W., Th., F., 9 to 12 and 1 to 4. Professor Prosser.
15. **Areal Geology.** Two to five credit hours. First and third terms. Instruction in the methods of preparing geological maps and reports. The student compiles from a geological report a map with sections showing geologic structure, and later traces the outcrops and prepares a geological map of some region. Prerequisite courses 11, 12, 13 and 14. Field work Saturdays, laboratory open M., T., W., Th., F., 9 to 12 and 1 to 4. Professor Prosser.
16. **Advanced Historical Geology.** Three to five credit hours. Three terms. Work in paleontology and stratigraphical geology for students who have had courses 11, 12, 13 and 14. A written report is required which shall review the literature of the work undertaken and in addition show

some scientific merit in the presentation of the results of the original investigation. Field work to be arranged with individual students. Laboratory open M., Tu., W., Th., F., 9 to 12 and 1 to 4. Professor Prosser.

17. **Physiography.** Three credit hours. Three terms. Introductory course. Study of the physiographic features of the earth's surface with special reference to North America; the agencies which produced these, and changes now in progress. The ocean and the atmosphere. The lectures illustrated by lantern views and maps. Open to Freshmen and Sophomores only. M., W., F., at 1. Professor Bownocker.
18. **Geographic Geology.** Three credit hours. Third term. The origin, development and destruction of topographic forms. Rivers, lakes, ocean, ice and winds as agents modifying the surface of the earth. Lectures, map work, field excursions. Prerequisite, course 11 or 17. Tu., Th., 9 to 10. Professor Bownocker.
19. **Petrography.** Two credit hours. Three terms. Laboratory and lectures. Optical crystallography, with practical determination of rock-forming minerals, macroscopically and microscopically. Study of the igneous rocks in the hand specimen and thin section. The Sturtz rock collection and Voight Hockgesang thin sections of typical minerals and rocks will be studied. Books of reference:—Mitchel Levy—Des Minneaux des Roches; Rosenbusch—Mikroskopische Physiographie der Petrographisch Wichtigen Mineralien, 3d ed.; Mikroskopische Physiographie der Massigen Gesteine, 2d ed.; Teall's British Petrography;; Spottiswoode's Polarization of Light. Prerequisites, Chemistry 1, Metallurgy 2, (Mineralogy and crystallography) elementary mineralogy. M., Tu., W., Th., F., 1 to 4. Professor Bownocker.
20. **Research Work.** Three to five credit hours. Three terms. Feld, laboratory and library study in Inorganic or Historical Geology. Outline of work and time to be arranged with individual students. Preceding courses in Inorganic or Historical Geology are prerequisite. Professor Bownocker or Professor Prosser.

GERMANIC LANGUAGES AND LITERATURE.

University Hall, Rooms 30 and 32.

PROFESSOR RHOADES, ASSISTANT PROFESSOR VILES, MR. EISENLOHR.

1. **Elementary German.** Four credit hours. Three terms. This course includes a careful study of the inflections and the sentence structure of German and the reading of easy prose; drill on syntax with constant oral and written practice in the reproduction of the text and in prose composition. Sec. I; M., Tu., W., Th., at 9. Professor Rhoades. Sec. II; M., Tu., Th., F., at 10. Assistant Professor Viles. Sec. III; M., Tu., Th., F., at 11. Mr. Eisenlohr. Sec IV; Tu., W., Th., F., at 2. Assistant Professor Viles. Sec., V; Tu., W., Th., F., at 3. Mr. Eisenlohr.
2. **Science Reading.** Two or four credit hours. Three terms. Sec. 1; M., Tu., W., Th., at 9. Sec. II; Tu., Th., at 8. Mr. Eisenlohr.
4. **Intermediate German.** Four credit hours. Three terms. Review of grammar, reading of descriptive and narrative prose and a classic drama, with prose composition and practice in the reproduction of texts read. Sec I; M., Tu., Th., F., at 10. Professor Rhoades. Sec. II; M., Tu., Th., F., at 11. Assistant Professor Viles.
9. **Classical Drama.** Three credit hours. Three terms. Lectures on the life and works of Lessing, Goethe and Schiller with the interpretation of Nathan der Weise, Iphigenie auf Tauris and Wallenstein; reports on assigned outside reading. Prerequisite, courses 1 and 4, or four years high school work. M., W., F., at 2. Professor Rhoades.

10. **Modern Prose and Drama.** Three credit hours. Three terms. Reading of modern and contemporary writers, translation, paraphrase and reports in German on assigned outside reading. Prerequisite, courses 1 and 4, or four years high school work. M., W., F., at 2. Professor Rhoades.
Not offered in 1904-1905.
11. **Faust I and II.** Three credit hours. First and second terms. Critical interpretation of the text. Lectures and recitations. Prerequisite, course 9 or 10, except by special permission. Credit for one term will not be given. M., W., F., at 11. Professor Rhoades.
12. **Colloquial Exercises and Composition.** Two credit hours. Three terms. Open only by permission. Prerequisite, course 4 or equivalent. Tu., Th., at 2. Mr. Eisenlohr.
13. **Deutscher Aufsatz.** One credit hour. Three terms. The work is intended especially for students preparing to teach, and affords practice in advanced composition and in the writing of original themes. In the third term lectures on methods of teaching are given, and the members of the class report upon text books, outline courses of study and conduct recitations. M., at 2. Assistant Professor Viles. Third term, Tu., at 2. Professor Rhoades.
14. **Gothic.** Three credit hours. First term. The work is introductory to the historical study of either German or English. Systematic work in grammar with the reading of a large amount of text; philological relations emphasized. Wright's Gothic Primer and ————. M., W., F., at 8. Assistant Professor Viles.
15. **Old High German.** Two credit hours. Second and third terms. With 17 this course forms a natural sequence to 14. Wright's Old High German Primer, and Braune's Alt-hochdeutsches Lesebuch; translation, philological study and a brief survey of Old High German Literature. M., W., at 8. Assistant Professor Viles.
16. **Middle High German.** Two credit hours. Three terms. Wright's Middle High German Primer followed by reading of the Nibelungenlied with selections from the Court Epics and from Walter von der Vogelweide. Literary and philological study. Tu., Th., at 8. Assistant Professor Viles.
17. **Old Saxon and Old Norse.** One credit hour. Second and third terms. The work follows 14 and should be taken in connection with 15. Braune's Abriss der Althochdeutschen Grammatik mit Berücksichtigung des Altsächsischen and Behagel's Der Heliand. In the third term Sweet's Icelandic Primer. Philological relations are specially emphasized. F., at 8. Assistant Professor Viles.
26. **Seminary. Contemporary German Drama.** Two credit hours. Three terms. Open only to fourth year and graduate students. Hours to be arranged. Professor Rhoades.
28. **Volkslied and Kirchenlied.** Two credit hours. Three terms. Prerequisite, course 4 or equivalent. M., W., at 2. Mr. Eisenlohr.
30. **History of German Literature Since the Reformation.** Three credit hours. Third term. Lectures with reports on assigned reading. Prerequisite, course 4, also 9 or 10 unless taken in connection with this course. M., W., F., at 11. Professor Rhoades.

GREEK LANGUAGE AND LITERATURE

University Hall, Rooms 37, 29 and 28.

PROFESSOR SMITH, ASSOCIATE PROFESSOR HODGMAN, ASSOCIATE PROFESSOR ELLEN.

First-year students coming to the University without preparation in Greek and desiring to study that language will enter Greek 1. For admission to course

7 the student must have passed course 1 or must be prepared at the time of admission as follows: Grammar: (Goodwin or Hadley-Allen) and Prose Composition; or White's First Greek Book entire. Reading: The first three books of Xenophon's Anabasis.

Courses 7-12 cover the work of two college years, and the consecutive numbering indicates the order in which the student is expected to take that work. The later courses, beginning with 13, are not necessarily in sequence, and are open to all who can show that they are qualified to pursue them with profit. This will be understood to mean the accomplishment of courses 7-12 or an equivalent.

Courses 22 and 23 (on the history of ancient art) do not presuppose any knowledge of Latin or Greek; but are especially recommended to those who have studied one or both of these languages.

1. **Elementary Greek.** Four credit hours. Three terms. This course includes the work in White's First Greek Book, with the reading of three books of the Anabasis. It is intended to meet the wants of those who lack the preparation for the advanced courses, or those who wish, without pursuing the subject farther, to gain some acquaintance with the elements of Greek. M., Tu., Th., F., at 11. Associate Professor Elden.
7. **Xenophon: The Memorabilia of Socrates; with Exercises in Greek Prose.** Four credit hours. First term. M., Tu., Th., F., at 11. Professor Smith.
8. **Herodotus, Selections; with Studies in Greek History.** Four credit hours. Second term. M., Tu., Th., F., at 11. Professor Smith.
9. **Homer's Odyssey, Selections from Books I-IX.** Four credit hours. Third term. M., Tu., Th., F., at 11. Professor Smith.
10. **Lysias; Eight Orations; with Studies in Attic Procedure.** Three credit hours. First term. Tu., Th., F., at 10. Professor Smith.
11. **Plato: Apology, Crito and Phaedo (narrative portions).** Three credit hours. Second term. Tu., Th., F., at 10. Professor Smith.
12. **Homer's Iliad.** Three credit hours. Third term. Rapid reading of the first six books, with literary discussion of the Homeric poems. Only those who have taken course 9 or its equivalent, will be admitted to this course. Tu., Th., F., at 10. Professor Smith.
13. **Thucydides: Book I or Book VII.** Three credit hours. First term. M., W., F., at 3. Associate Professor Hodgman.
14. **Demosthenes: Olynthiacs and Philippics.** Three credit hours. Second term. M., W., F., at 3. Associate Professor Hodgman.
15. **Greek Lyric Poets, or Theocritus.** Three credit hours. Third term. M., W., F., at 3. Associate Professor Hodgman.
16. **Attic Drama.** Two credit hours. First term. Lectures and discussions. Tu., Th., at 3. Associate Professor Hodgman.
17. **Euripides: Two plays.** Two credit hours. Second term. Tu., Th., at 3. Associate Professor Hodgman.
18. **Aeschylus; the Agamemnon.** Two credit hours. Third term. Tu., Th., at 3. Associate Professor Hodgman.
- *19. **Epic Poetry.** Two credit hours. First term. Lectures with reading of Hesiod's Works and Days. W., F., at 2. Professor Smith.
- *20. **Greek Comedy.** Two credit hours. Second term. Lectures, with reading of the Birds of Aristophanes. W., F., at 2. Professor Smith.

- *21. **Post-Classical Greek.** Two credit hours. Third term. Lucian's *Timon* and Dion Chrysostom's *Hunters of Euboea*. W., F., at 2. Professor Smith.
- *22. **Ancient Art.** Two credit hours. First term. Lectures on Architecture. Professor Smith.
- *23. **Ancient Art.** Two credit hours. Second term. Lectures on Sculpture. Professor Smith.
- *24. **Private Life of the Greeks.** Two credit hours. Third term. Lectures. Professor Smith.
- 25. **Greek Philosophy.** Two credit hours. First term. Lectures with reading of Xenophon's *Memorabilia* (other portions than those in course 7). Tu., Th., at 2. Professor Smith.
- 26. **Plato: Gorgias or Protagoras.** Two credit hours. Second term. Tu., Th., at 2. Professor Smith.
- 27. **Studies in New Testament Greek.** Two credit hours. Third term. Tu., Th., at 2. Professor Smith.
- *28. **Historical Grammar.** One credit hour. Three terms. Lectures on the principles that govern the development of the language. Th., at 3. Associate Professor Hodgman.
- 29. **Relations of Greece and Persia.** Two credit hours. First term. Panegyricus of Isocrates. W., F., at 2. Professor Smith.
- 30. **The Macedonian Supremacy: Arrian's Expedition of Alexander the Great.** Two credit hours. Second term. W., F., at 2. Professor Smith.
- 31. **Later Greek Epics: the Argonautica of Apollonius Rhodius.** Two credit hours. Third term. W., F., at 2. Professor Smith.

HISTORY.

(See American and European History.)

ITALIAN.

(See Romance Languages.)

HORTICULTURE.

Horticultural Hall.

PROFESSOR LAZENBY, ASSISTANT PROFESSOR DAVIS.

- 1. **Elements in Horticulture.** Four and one-half credit hours. First term. A study of the principles of plant growth and culture including preparatory tillage, drainage, irrigation, weeds, insects, etc., in their relation to horticultural crops. Lectures and recitations, M., W., F., 9 or 11; laboratory or practicum, M., or W., 1 to 4.
- 2. **Vegetable Forcing.** Four and one-half credit hours. Second term. A study of the history and development of different types of plant houses, including methods of heating, ventilating and general management. Lectures and recitations, M., W., F., 9 or 11.; laboratory or practicum, M., or W., 1 to 4.

* Not given in 1904-1905.

3. **Plant Propagation.** Four and one-half credit hours. Third term. The theory and practice of multiplying plants by seeds, layers, cuttings, grafts and divisions; pruning and training, including both the theory and practice of the operations involved; spraying, history of the development and use of insecticides and fungicides, together with a study of the comparative merits of different remedies for particular insects and plant diseases. Lectures and recitations, M., W., F., 9 or 11; laboratory or practicum, M., or W., 1 to 4.
5. **Varieties of Cultivated Fruit.** Four and one-half credit hours. First term. A study of history, characteristics, adaption and general qualities of orchard and garden fruits, including their commercial and food values. The judging and scoring of apples, pears, peaches, grapes, citrons and nut fruits. Lectures and recitations, M., W., F., at 8; laboratory and practicum, W., 1 to 4.
6. **Principles of Fruit Culture.** Four and one-half credit hours. Second term. A study of the location, tillage and fertilizing of orchards and gardens; the selection of varieties, laying out, planting and general management of fruit plantations, including diseases, insects and fungi; the use of insecticides and fungicides; harvesting, marketing and storing fruit. Lectures and recitations, Tu., Th., F., at 9 or 10; laboratory and practicum, M., or W., 1 to 4.
14. **Olericulture.** Four and one-half credit hours. Third term. Principles of home and truck gardening, including a study of the culture, soil, climate and market conditions to be considered in relation to the various garden crops. Lectures and recitations, M., W., F., at 8; laboratory or practicum, W., 1 to 4.
8. **Ornamental Plants.** Two and one-half credit hours. First term. A study of the history, classification, general characteristics, propagation and culture of ornamental plants, together with their uses for home and public grounds. Lectures and recitations. Tu., at 8 or F., at 9; laboratory or practicum, M., or Tu., 1 to 4.
9. **Window Gardening and Floriculture.** Two and one-half credit hours. Second term. Including the general management of house plants, the home conservatory, commercial greenhouse, and the propagation and uses of flowers and plants for decoration. Lectures and recitations, Tu., at 8 or F., at 9; laboratory or practicum, M. or Tu., 1 to 4.
10. **Home Gardening.** Two and one-half credit hours. Third term. The location, planting and management of the kitchen garden, and the laying out and treatment of the ornamental grounds about the home. Lectures and recitations, Tu., at 8 or F., at 9; laboratory or practicum, M. or Tu., 1 to 4.
15. **Landscape Gardening.** Two and one-half credit hours. Third term. A study of the art of producing picture-like or landscape effect; the making of lawns, walks and drives, and the correct planting of trees, shrubs and flowers for the external adornment of home and public grounds. Lectures and recitations, Th., at 8; practicum, F., 1 to 4.
11. **Elements of Forestry.** Five credit hours. First term. Our native and introduced trees and shrubs treated individually and collectively; their use for timber, fuel, shelter, ornament, etc. Methods of propagation and culture. Lectures and recitations. Tu., Th., at 9; laboratory or practicum, Th., F., 1 to 4.
12. **Forest Technology and Timber Physics.** Five credit hours. Second term. The principles and methods of establishing, improving and managing woodlands; including the measurements and estimates of standing timber and harvesting of forest products; a study of the more important physical properties of wood. Lectures and recitations, Tu., Th., at 9; laboratory or practicum, Th., F., 1 to 4.

15. **Forest Economics.** Five credit hours. Third term. The economic features of modern forestry; the influence of forests upon climate, soils and crop production; forest valuation, protection and administration; forest laws and forest policies; forestry conditions in Ohio and other states. Lectures and recitations. Tu., Th., at 9; laboratory or practicum, Th., F., 1 to 4.
16. **Nature Study.** Two and one-half credit hours. First term. A course intended primarily for those who are or expect to become teachers; treating of the objects and aims of nature study with lectures on some of the interesting things to be found everywhere about us, indicating how such material can be advantageously used by the teacher in class room work. Lectures, recitations and practicum, Th., at 11, M., 1 to 4.
17. **Plant Variation.** Two and one-half credit hours. Second term. A course designed for those interested in plant breeding and in the modification and improvement of plants by mutation, crossing, dwarfing, forcing, etc., together with a discussion of the current theories of evolution as applied to the variation and amelioration of plants under cultivation. Lectures and recitations, W., at 8; seminar or a laboratory period, Th., 1 to 4.

INDUSTRIAL ARTS AND SHOPWORK.

Hayes Hall, Rooms 2, 5, 6, 12, 17, 18 and 21.

PROFESSOR SANBORN, ASSISTANT PROFESSOR KNIGHT, MR. RENCK, MR. CROWE.

Industrial Arts.

1. **Tools and Machines.** Three credit hours. Lectures and recitations on hand and machine tools and the principles underlying their construction and operation, and materials used in construction. (Courses in Industrial Arts and Manual Training, third year; Short Course in Industrial arts, second year, first, second and third terms, Tu., Th., S., at 8.) Professor Sanborn.
2. **Designing.** Three credit hours. Problems in design to accompany Course 1. (Courses in Industrial Arts and Manual Training, third year; Short Course in Industrial Arts, second year, second and third terms, F., 1 to 4; S., 9 to 12.) Professor Sanborn.
3. **Shop Equipment, Appliances and Management.** Three credit hours. A continuation of Course 1. Lectures and recitations on the strength and durability of the materials used in construction; shop and factory buildings and their construction; power, power transmission and prime movers; automatic machines and other special devices for turning out cheap and accurate work; methods of compensation and shop accounts and management. (Course in Industrial Arts, fourth year, first, second and third terms, M., W., F., at 11.) Professor Sanborn.
4. **Advanced Designing.** Three credit hours. Problems in the design of buildings and the arrangement of machinery, line-shafting, etc., for manufacturing plants; to accompany Course 3. (Course in Industrial Arts, fourth year, first and second terms. M., Tu., 1 to 4; third term, W., Th., 1 to 4.) Professor Sanborn.
5. **Workshop Appliances.** Three credit hours. Lectures and problems on the construction of shop buildings and the arrangement of machinery; power required and the means of transmission; friction in line shafting and the efficiency of machinery; automatic machines and special shop appliances. (Course in Mechanical Engineering, fourth year, third term, M., W., F., at 8.) Professor Sanborn.

7. **Machine design.** Three credit hours. Practical application of principles of machine design. (Course in Electrical Engineering, second year, third term. M., Tu., 1 to 4.) Professor Sanborn.
8. **Machine Drawing.** Three credit hours. Working sketches of mechanical parts and machines from measurement; detail and assembly drawings. (Short Course in Industrial Arts, second year, first term. Th., 1 to 4.) Professor Sanborn.

SHOPWORK

(Note.—For credit given, time schedule, courses required, etc., see table)

1. **Carpentry and Pattern Making.** Exercises and practice in carpentry, wood-turning and pattern making, including sawing, planing, jointing, framing and other work involving the use of ordinary carpenter tools; center and chuck turning; the making of finished patterns; enough elementary moulding to illustrate draft, parting, cores, etc. Mr. Renck.
2. **Forging.** Exercises and practice in iron and steel forging, including operations as cutting, bending, drawing, upsetting, shaping and straightening iron, the making, hardening and tempering of steel punches and cold chisels. Mr. Crowe.
3. **Foundry Work.** Exercises and practice in tempering sand and preparing moulds of machine parts in the sand, core-making, melting iron and brass and pouring castings. Mr. Renck.
4. **Chipping and Filing.** Exercises and practice in vise work, including planing in cast and wrought iron, surface filing, squaring, fitting and straightening, and the scraping of surface plates. Assistant Professor Knight.
7. **Carpentry and Pattern Making.** Exercises and practice in carpentry, wood-turning and pattern making, including sawing, planing, mortising, jointing, framing and other work involving the use of the ordinary carpenter tools; center and chuck turning; the making of finished patterns; enough elementary molding to illustrate draft, parting, cores, etc. Mr. Renck.
8. **Carpentry: Cabinet Work.** Exercise and practice work in cabinet making, including paneling, mitre and dovetail joints, etc.; use of power tools. Mr. Renck.
9. **Advanced Pattern Making.** Continuation of pattern work of Shop 1. Mr. Renck.
11. **Forging.** The use and care of forge, fire and tools; practice in iron and steel forging, including such operations as cutting, bending, drawing, upsetting, shaping and welding iron; the making, hardening and tempering of steel punches, chisel and lathe tools. Mr. Crowe.
12. **Advanced Forging.** Various forms of welds in iron and steel; the making of scrolling irons and of forms for duplicating work; annealing, case-hardening; tempering drills, dies and cutters; making; ornamental iron work; visits to shops. Mr. Crowe.
13. **Machine Work.** Exercises and practice in hand-turning in iron and steel on speed lathes; in straight and taper turning, boring, fitting, cutting and thread-cutting on engine lathes. Assistant Professor Knight.
14. **Machine Work.** Exercises and practice on the lathe, planer, shaper, press and milling machine, with use of small tools as drills, taps, reamers, counterborers, etc.; construction of parts of actual machines. Assistant Professor Knight.

15. **Advanced Machine Work.** Exercises and practice on turret lathe, universal, surface and tool grinding machines; in gear cutting, etc. Assistant Professor Knight.
16. **Advanced Machine Work.** The construction and use of jigs and templates; the accurate laying out of work; the duplication of parts, the production of work rapidly and economically, etc. Assistant Professor Knight.
17. **Advanced Machine Work.** The making and use of special tools and fixtures, standard plugs and collars, standard caliper and limit gauges; error limits in modern machine construction; methods of testing the accuracy of machine tools, etc. Assistant Professor Knight.

Summer Term. The Summer Term in Shopwork will begin on Monday morning preceding Commencement Day and continue for four weeks. The courses open to students are Shopwork (4) (7) (11) (13) (14) and (15), three hours credit in each.

Each course requires three hours a day for six days a week. Students electing the Electrical or Mechanical Engineering Courses are required to take two of the three courses, Shopwork (4) (7) and (11) at the close of their first year.

Students electing the Chemical Engineering Course are required to take Shopwork courses (7) and (11) at the close of their first or second year.

The courses are open as elective to students who desire to lighten their work of the regular terms, to make up back work or to take extra work.

SHOPWORK REQUIRED

Number	Credit hours	Subject	Year	Term	Hours	Courses in
1	3	Woodworking	1	3	M. Tu. 1-4; W. Th. 1-4; or F. 1-4; S. 8-11.	Agric.; Hort. and For.
2	3	Forging	1	3	M. Tu. 1-4; or W. Th. 1-4	Short Agric.
2	3	Forging	2	2	M. Tu. 1-4; W. Th. 1-4; or F. 1-4; S. 8-11.	Agric.
3	2	Founding	2	1	Th. 1-5; or S. 8-12.....	Mech. Eng.
3	2	Founding	2	1	Tu. 1-5.....	Short Ind. Arts.
3	3	Founding	2	1	M. 2-4; Tu. 1-5.....	Ind. Arts; Manual Train.
4	2	Chipping & Filing	1	3	M. Tu. 1-3.....	Short Clayworking.
4	3	Chipping & Filing	2	1	F. 1-4; S. 9-12.....	Short Ind. Arts.
4	3	Chipping & Filing	.....	.....	(See Courses).....	Elec. Eng.; Mech. Eng.
4	3	Chipping & Filing	4	1	M. Tu. 1-4.....	Ceramics.
4	3	Chipping & Filing	3	1	M. Tu. 1-4.....	Ind. Arts.
4	3	Chipping & Filing	3	1	M. Tu. Th. 10-12.....	Manual Train.
7	2	Woodworking	2	1	M. F. 10-12.....	Mining Eng.
7	3	Woodworking	1	1	M. Tu. 1-4.....	Short Ind. Arts.
7	3	Woodworking	2	1	W. Th. 1-4.....	Manual Train.
7	3	Woodworking	2	1	F. 1-4; S. 8-11.....	Ind. Arts.
7	3	Woodworking .....	.....	.....	(See Course)	Chem., Elec. and Mech. E.
8	3	Cabinet work.....	2	3	M. Tu. 1-4.....	Ind. Arts; Manual Train.
9	3	Adv. Pattern work	1	2	M. Tu. 1-4.....	Short Ind. Arts.
9	3	Adv. Pattern work	2	2	M. Tu. 1-4.....	Ind. Arts; Manual Train.
9	3	Adv. Pattern work	.....	.....	(See Courses).....	Mech. Eng.
11	3	Forging .....	.....	.....	(See Courses).....	Chem., Elec. and Mech. E.
11	2	Forging	2	2	M. F. 10-12.....	Mining Eng.
11	3	Forging	2	2	F. 1-4; S. 8-11.....	Ind. Arts; Manual Train.

SHOPWORK REQUIRED—Concluded

Number	Credit hours	Subject	Year	Term	Hours	Courses in
11	3	Forging	1	3	M. Tu. Th. 10-12.....	Short Ind. Arts.
11	3	Forging	1	3	M. Tu. 1-4.....	Short Mining.
11	3	Forging	1	3	W. Th. 1-4.....	Short Clayworking.
11	3	Forging	3	3	W. Th. 1-4.....	Ceramics.
12	3	Adv. Forging.....	2	3	F. 1-4; S. 8-11.....	Ind. Arts; Manual Train.
13	3	Machine work.....	2	2	M. Tu. 1-4; or W. Th. 1-4; or F. 1-4, S. 8-11.	Elec. Eng.
13	3	Machine work.....	2	3	M. Tu. 1-4.....	Manual Train.
13	3	Machine work.....	2	3	M. Tu. Th. 10-12.....	Ind. Arts.
13	3	Machine work.....	2	3	W. Th. 1-4.....	Short Ind. Arts.
13	3	Machine work.....	2	3	M. Tu. 1-4; or F. 1-4, S. 8-11.....	Mech. Eng.
14	3	Adv. Machine w'k	3		M. Tu. W. 8-10; or Th. F. S. 8-10.....	Elec. Eng.
14	3	Adv. Machine w'k	3		M. Tu. Th. 10-12; or M. Tu. 1-4.....	Mech. Eng.
14	3	Adv. Machine w'k	3		Th. F. 1-4.....	Short Ind. Arts.
14	3	Adv. Machine w'k	3		M. Tu. Th. 10-12.....	Manual Train.
14	3	Adv. Machine w'k	3	3	M. Tu. 1-4.....	Ind. Arts.
15	3	Adv. Machine w'k	4		F. 1-4; S. 8-11.....	Ind. Arts; Manual Train.
15	4	Adv. Machine w'k	3		M. Tu. Th. F. 10-12; or Th. 2-4; F. 1-4; S. 9-12.....	Mech. Eng.
16	3	Adv. Machine w'k	4	2	M. W. F. 8-10.....	Ind. Arts; Manual Train.
17	3	Adv. Machine w'k	4		M. Tu. 1-4.....	Ind. Arts.

LATIN LANGUAGE AND LITERATURE

University Hall, Rooms 17, 28, 29, 37, 54 and 55

PROFESSOR DERBY, ASSOCIATE PROFESSOR HODGMAN, ASSOCIATE PROFESSOR ELDEN.

At least five units of preparatory Latin are required for admission to this department. Starred courses are not given in 1903-1904. Courses 1, 2 and 3 must precede all elective work in Latin, and courses 4, 5 and 6 must precede or accompany other elective courses in this department.

- Cicero:** De Senectute and De Amicitia, or Selected Letters. Four credit hours. First term. Sec. I: M., Tu., Th., F., at 10; Associate Professor Elden. Sec. II: M., Tu., Th., F., at 11; Professor Derby. Sec. III: Tu., W., Th., F., at 2; Associate Professor Hodgman.
- Livy:** Book 1, 2, 21, or 22. Four credit hours. Second term. Sec. I: M., Tu., Th., F., at 10; Associate Professor Elden. Sec. II: M., Tu., Th., F., at 11; Professor Derby. Sec. III: Tu., W., Th., F., at 2; Associate Professor Hodgman.
- Horace:** Odes. Four credit hours. Third term. Sec. I: M., Tu., Th., F., at 10; Associate Professor Elden. Sec. II: M., Tu., Th., F., at 11; Professor Derby. Sec. III: Tu., W., Th., F., at 2; Associate Professor Hodgman.
- Pliny:** Selected Letters. Three credit hours. First term. Sec. I: Tu., Th., F., at 2; Professor Derby. Sec. II: Tu., Th., F., at 11; Associate Professor Hodgman.

- . **Tacitus:** *Germania* and *Agricola* or *Catullus*. Three credit hours. Second term. Sec. I: Tu., Th., F., at 2; Professor Derby. Sec. II: Tu., Th., F., at 11; Associate Professor Hodgman.
- . **Terrence:** *Phormio*; *Plautus*, *Trinummus* or *Captivi*. Three credit hours. Third term. Sec. I; Tu., Th., F., at 2; Professor Derby. Sec. II; Tu., Th., F., at 11; Associate Professor Hodgman.

The instruction in courses 4, 5 and 6, without neglecting the lines of the preceding work, pays more attention to the style and literary merit of the authors studied, and to the subject-matter as a contemporary record of Roman thought and life.

- . **Tacitus:** *Historiae* or *Annales*. Three credit hours. First term.
- . **Juvenal:** *Satires*. Three credit hours. Second term.
- . **Martial:** Selected *Epigrams*. Three credit hours. Third term.
- . **Plautus:** *Manacchmi* and *Rudens*. Three credit hours. First term. Tu., Th., F., at 10. Associate Professor Hodgman.
- . **Cicero:** *De Finibus* or *De Officiis*. Three credit hours. Second term. Tu., Th., F., at 10. Associate Professor Hodgman.
- . **Seneca:** *Medea*, *De Vita Beata*, *De Providentia*, *De Tranquillitate Animi*. Three credit hours. Third term. Tu., Th., F., at 10. Associate Professor Hodgman.
- . **Cicero:** *De Natura Deorum*. Three credit hours. First term. M., W., F., at 9. Associate Professor Elden.
- . **Lucretius:** *De Rerum Natura*. Three credit hours. Second term. M., W., F., at 9. Associate Professor Elden.
- . **Horace:** *Satires*. Three credit hours. Third term. M., W., F., at 9. Associate Professor Elden.
- . **Horace:** *Epistles*. Three credit hours. First term. M., W., F., at 3. Professor Derby.
- . **Suetonius:** *Divus Julius* and *Divus Augustus*, or *Tacitus, Annals*. Three credit hours. Second term. M., W., F., at 3. Professor Derby.
- . **Latin:** Three credit hours. Third term. M., W., F., at 3. Professor Derby.
- . **Teachers' Course.** Three credit hours. Three terms. This course is designed especially for students who intend to teach Latin and is open only to those who have completed courses 1 to 6 inclusive. First term: *Caesar*; lectures, private reading, practical exercises in syntax, assigned topics in military antiquities. Second term: *Cicero*; lectures on Roman oratory and style, rapid reading of selected orations, assigned topics on Roman life and political antiquities. Third term: *Vergil*; lectures, studies in versification with especial reference to the diction and hexameter of *Vergil*, interpretation of selected portions of the text. Tu., Th., at 9. Associate Professor Elden.
- . **Latin Prose Composition.** Two credit hours. Three terms. M., W., at 8. Professor Derby.
- . **Antiquities.** Two credit hours. Three terms. Roman private life will be studied during the first term; attention will be given to such topics as the family, education, dress, food, the house, trade and in-

* Not given in 1904-1905.

dustries, books, travel, etc. The second and third terms will be devoted to political and legal antiquities, including finance and provincial administration. Tu., Th., at 8. Professor Derby.

- *21. **Latin Literature.** Two credit hours. First and second terms.
- *22. **Latin Philology.** Two credit hours. Third term.
- *23. **Historical Latin Grammar.** Two credit hours. Three terms. Sounds and inflections. Associate Professor Hodgman.
This course treats in lectures of the growth of Latin sounds and inflections. There will be collateral reading of inscriptions and from Quintilian. Tu., Th., at 10.
- *24. **Advanced Latin Writing.** Three credit hours. Three terms.
- 25. **Pro-Seminary.** Three credit hours. Principals of textual criticism and methods of independent research. The work of 1904-05 will consist of the textual and exegetical study of a portion of the Jugurtha of Sallust, combined with the more rapid reading of other portions of the author, and will be supplemented by lectures upon the history and development of Roman History. Special topics will be assigned to the student for investigation and report. This course should be preceded or accompanied by course 18. The ability to use German text-books will be required of students in this course. M., W., at 2. Professor Derby.
- 26. **Pharmaceutical Latin.** Four credit hours. Three terms. M., Tu., Th., F., at 10.
- *27. **Ovid: Fasti.** One credit hour. Three terms. A large amount will be read of Ovid's poetical calendar, with its account of the social and religious observances connected with the Roman holidays. F., at 10. Associate Professor Hodgman.
- *28. **Historical Latin Grammar.** One credit hour. Three terms. Syntax, lectures on problems connected with the origin and development of certain constructions in Latin Syntax; a treatment along historical lines of the syntactic uses of the cases, moods and tenses. F., at 3. Associate Professor Elden.

LAW.

Page Hall.

PROFESSORS HUNTER, †KINKEAD, KNIGHT, PAGE, RANDALL, SHAUCK,
STEWART, AND RIGHTMIRE.

Elementary Law. Fifteen credit hours. First Semester. First year. (Robinson, Walker, Tenth Edition, and Blackstone and Tiffany's Persons and Domestic Relations.) Mr. Page, Mr. Rightmire.

Agency. Two credit hours. Second Semester. First year. (Mechem.) Mr. Randall.

Contracts. Four credit hours. Second Semester. First year. (———) Mr. Page.

Criminal Law. Three credit hours. Second Semester. First year. (Hawley.) Mr. Kinkead.

Sales. Two credit hours. Second Semester. First year. (Tiedeman.) Judge Hunter.

*Not given in 1904-1905. †Died, June 15, 1904.

Torts. Four credit hours. Second Semester. First year. (Cooley.) Mr. Kinkead.

Bailments. Two credit hours. First Semester. Second year. (Hale.) Judge Hunter.

Negotiable Instruments. Five credit hours. First Semester. Second year. (Tiedeman, Randall.) Mr. Randall.

Evidence. Three credit hours. Throughout the year. Second year. (Greenleaf, Sixteenth edition.) Judge Hunter.

Pleading. Four credit hours. Throughout the year. Second year. (Phillips.) Mr. Kinkead.

Moot Court. One credit hour. Throughout the second and third years. Judge Hunter.

Partnership. Two credit hours. Second Semester. Second year. (Mechem.) Mr. Randall.

Real Property. Five credit hours. Second Semester. Second year. (Tiedeman.) Mr. Page.

Wills. Two credit hours. Second Semester. Second year. (Page.) Mr. Page.

Constitutional Law. Three credit hours. First Semester. Third year. (Black.) Mr. Knight.

Private Corporations. Two credit hours. Throughout the year. Third year. (Taylor.) Judge Hunter.

Municipal Corporations. Three credit hours. First Semester. Third year. (Elliott.) Judge Hunter.

Equity. Four credit hours. First Semester. Third year. (Merwin.) Judge Shauck.

Probate Law. Two credit hours. First Semester. Third year. (Kinkead.) Mr. Kinkead.

Ethics. Two credit hours. Second Semester. Third year. (Sharswood.) Mr. Kinkead.

Federal Practice. Two credit hours. Second Semester. Third year. Mr. Stewart.

Quasi-Contracts. Two credit hours. Second Semester. Third year. (Keener.) Mr. Page.

Suretyship. Two credit hours. Second Semester. Third year. (Stearns.) Judge Hunter.

Trial Practice. Two credit hours. Second Semester. Third year. (Kinkead.) Mr. Kinkead.

GRADUATE WORK.

General and Comparative Jurisprudence.

General Jurisprudence. Holland and Particular Topics. One credit hour. Second Semester. President Thompson.

Comparative Jurisprudence. Roman Law; Outlines. Two credit hours. First Semester.

History of the Common Law, Pollock & Maitland. Three credit hours. First Semester. Mr. Page.

English and American Constitutional History.

English Constitutional History. Three credit hours. Throughout the year. Mr. Siebert.

American Constitutional History. Three credit hours. Throughout the year. Mr. Knight.

Political Science.

Public International Law. Mr. Knight.

History of Treaties and Modern Diplomacy. Five and six, two credit hours. Throughout the year. Mr. Knight.

American Diplomatic History. Three credit hours. Throughout the year. This is included in American Constitutional History, but may be taken separately. Mr. Knight.

American Jurisprudence.

Private Corporations—Cases. Two credit hours. First Semester. Judge Hunter.

Railroad Law. One credit hour. Second Semester.

Law of Receivers. One credit hour. Second Semester.

Insurance. One credit hour. First Semester.

Negligence and Damages. Cases, and Jones on Negligence of Municipal corporations. One credit hour. Throughout the year. Judge Hunter.

Cases in Evidence. Thayer. One credit hour. Throughout the year. Judge Hunter.

Cases in Equity. Two credit hours. Second Semester. Judge Shauck.

Remedies and Remedial Rights, including drafting, pleadings and other legal papers; preparation for trial; and Moot Court. One credit hour. Throughout the year. Mr. Kinkead.

Real Property, advanced studies, including examinations of titles and making of abstracts of title. One credit hour. Second Semester. Mr. Page.

Circuit and Supreme Court Practice, and Special Procedure under the Ohio Code of Civil Procedure. One credit hour. Second Semester. Judge Shauck.

Private International Law (Conflict of Laws). One credit hour. Throughout the year. Mr. Knight.

MATHEMATICS.

Office, University Hall, Room 45

PROFESSOR BOHANNAN, ASSOCIATE PROFESSOR MCCOARD, ASSOCIATE PROFESSOR BOYD, ASSISTANT PROFESSOR ARNOLD, ASSISTANT PROFESSOR SWARTZEL, ASSISTANT PROFESSOR KUHN, ASSISTANT PROFESSOR CODDINGTON, MR. RASOR, MR. DAVIS, MR. CLEMENTS.

1. **Elementary Algebra.** Five credit hours. Venable. (Short Course in Clay-working, first year, first term, M., Tu., W., Th., F., at 9.) Mr. Clements.

2. **Elementary Algebra.** Five credit hours. Wentworth. (Short Courses in Mining and Industrial Arts, first year, first, second, third terms, M., Tu., W., Th., F., at 9.) Professor Ray.
3. **Plane Geometry.** Five credit hours. Venable. (Short Courses in Mining and Industrial Arts, first year, first term, M., Tu., W., Th., F., at 11.) Mr. Clements.
- 3a. **Plane Geometry.** Five credit hours. Venable. (Short Course in Clay-working, first year, second term, M., Tu., W., Th., F., at 9.) Mr. Davis.
- 1 1. **Differential Equations.** One credit hour. Edwards. (Course in Mechanical Engineering, third year, first term, F., at 10.) Assistant Professor Boyd.
- 1 3. **Solid Geometry.** Five credit hours. Venable. (Short Courses in Mining and Industrial Arts, first year, second term, M., Tu., W., Th., F., at 11.) Mr. Clements.
- 1 4. **Trigonometry.** Plane trigonometry. Five credit hours. (Short Courses in Industrial Arts and Mining, first year, third term, M., Tu., W., Th., F., at 8.) Mr. Clements.
- 2 1. **College Algebra.** Three credit hours. First term. Taylor's College Algebra. Open to students having credit for the second unit of entrance algebra. (Students not able to present this second unit on entrance may make it up in college, but without college credit. Each term a class will be organized for this purpose.) M., W., F., at 9, 11 and 1. Professor Bohannon, Associate Professor McCoard, Assistant Professors Swartzel, Kuhn, Mr. Rasor, Mr. Clements.
- 2 2. **Plane Trigonometry.** Three credit hours. Second term. Open to students having credit for the first unit of entrance algebra and the first unit of entrance geometry. M., W., F., at 9, 11, and 1. Professor Bohannon, Associate Professor McCoard, Assistant Professors Swartzel, Kuhn, Mr. Rasor, Mr. Davis.
- 2 3. **Elementary Course in Analytical Geometry and Calculus.** Three credit hours. Third term. Open to students having credit for entrance algebra and geometry and for course 22. (Students not prepared in the second unit of entrance geometry may make up the deficiency in a special class during the second term, but without college credit. See also note to course 21.) M., W., F., at 9, 11, 1. Professor Bohannon, Associate Professor McCoard, Assistant Professors Swartzel, Kuhn, Coddington, Mr. Rasor, Mr. Davis.
- 2 4. **Problems on all past Work.** One credit hour. Three terms. Peterson's Problems in Geometry, with selected problems in algebra, trigonometry, analytical geometry and calculus. This course may accompany courses 21, 22, 23, or courses 31, 32, 33. F., at 10. Mr. Rasor.
- 2 8. **Analytical Geometry and Calculus.** Three credit hours. Three terms. Open to students having credit for courses 21, 22, 23, or courses 31, 32, 33. Hours to be arranged. Professor Bohannon, Associate Professor McCoard, Assistant Professors Swartzel, Kuhn, Mr. Rasor.
- 3 1. **College Algebra.** Five credit hours. First term. Open to students having credit for entrance algebra. Twelve sections meeting daily at 8, 9, 11, 1 and 2. Professor Bohannon, Associate Professor McCoard, Assistant Professors Swartzel, Kuhn, Coddington, Mr. Rasor, Mr. Davis.
- 3 2. **Plane Trigonometry.** Five credit hours. Second term. Open on a credit for entrance algebra and for the first unit of entrance geometry. Twelve sections meeting daily at 8, 9, 11, 1 and 2. Professor Bohannon, Associate Professor McCoard, Assistant Professors Swartzel, Kuhn, Coddington, Mr. Rasor, Mr. Davis.

33. **Analytical Geometry.** Five credit hours. Third term. Open on a credit for entrance algebra, the first unit of entrance geometry and for course 22 or 23. Twelve sections meeting daily at 8, 9, 11, 1 and 2. Professor Bohannon, Associate Professor McCoard, Assistant Professors Swartzel, Kuhn, Coddington, Mr. Rasor, Mr. Davis.
41. **Calculus.** Five credit hours. First term. Open on a credit for courses 21, 22, 23, or for courses 31, 32, 33. Five sections meeting daily at 8, 11 and 1. Professor Bohannon, Associate Professors McCoard and Boyd, Assistant Professors Swartzel, Kuhn, Coddington.
42. **Continuation of course 41.** Five credit hours. Second term. Daily at 8, 11, 1.
43. **Continuation of course 42.** Five credit hours. Third term. Daily at 8, 11, 1.
71. **Mechanics.** Five credit hours. First term. Open on credit for courses 41, 42, 43. Daily at 8, 9, 11. Associate Professor Boyd, Assistant Professor Swartzel, Assistant Professor Kuhn.
72. **Continuation of course 71.** Five credit hours. Second term. Daily at 8, 9, 11.
73. **Continuation of course 72.** Five credit hours. Third term. Daily at 8, 9, 11.
25. **Higher Mathematics.** From one to ten hours a week may be selected from the following courses:
- (a) Determinants.
 - (b) Modern Geometry. (Assistant Professor Kuhn.)
 - (c) Modern Higher Algebra.
 - (d) Advanced Plane Analytical Geometry.
 - (e) Advanced Calculus.
 - (f) Space Analytics.
 - (g) Differential Equations.
 - (h) Theory of Equations. (Assistant Professor Coddington.)
 - (i) Higher Plane Curves.
 - (j) Groups. (Assistant Professor Kuhn.)
 - (k) General Function Theory.
 - (l) Elliptic Functions.
 - (m) Potential Functions. (Assistant Professor Swartzel.)
 - (n) Spherical Harmonics.
 - (o) Mathematical Electricity.
 - (p) Mathematical Optics.
 - (q) General Mathematical Physics.
 - (r) Higher Geodesy.
 - (s) Infinite Series and Products. (Assistant Professor Swartzel.)
 - (t) The Teaching of Elementary Mathematics. A course in methods of teaching elementary mathematics, designed especially for those preparing to teach in the secondary schools. The laboratory plan will be carefully considered. Twice a week, third term. Tu., Th., at 2. Assistant Professor Kuhn.
- Course 25 (b) Three terms. Hours for all other courses to be arranged with the instructors. Tu., Th., at 10. Professor Bohannon, Assistant Professor Swartzel, Assistant Professor Kuhn, Assistant Professor Coddington.

MECHANICAL ENGINEERING.

Office, Hayes Hall, Room 11.

PROFESSOR MAGRUDER, PROFESSOR HITCHCOCK, ASSISTANT PROFESSOR JUDD, MR.
CARTZDAFNER.

3. **Mechanism.** Five credit hours. Lectures and recitations on the principles of mechanism and mechanical movements. (Courses in Electrical and Mechanical Engineering, third year, second term, M., Tu., W., Th., F., at 8; or M., Tu., Th., F., at 10; W., 9.) Professor Hitchcock. The accurate laying out of movements, embodying the principles of mechanism. Two hours credit. (Course in Mechanical Engineering, third term, M., Tu., 1 to 3.) Professor Hitchcock.
12. **Experimental Engineering Laboratory.** Two credit hours. Calibration of pressure gauges and indicator springs; steam engine indicator practice and oil testing. (Course in Mechanical Engineering, third year, first term, W., 1 to 5; S., 8 to 12. Course in Industrial Arts, fourth year, first term, Th., 1 to 5.) Assistant Professor Judd and Mr. Cartzdafner.
14. **Continuation of Course 27.** Four credit hours. (Course in Mechanical Engineering, fourth year, second term, M., W., 1 to 5.) Professor Hitchcock, Assistant Professor Judd and Mr. Cartzdafner.
15. **Continuation of Course 14.** Three credit hours. Testing of steam boilers, injectors, steam, centrifugal and power pumps, pulsometer and hydraulic rams. (Course in Mechanical Engineering, fourth year, third term, M., Tu., 9 to 12.) Professor Hitchcock, Assistant Professor Judd.
17. **Experimental Engineering.** Three credit hours. Practice in the testing of materials, of construction, calibration of orifices and weirs, study of the flow of liquids and gases, accompanied by lectures and recitations on laboratory practice, steam engines, boilers and power transmission. (Course in Civil Engineering, fourth year, second term, Th., at 11; F., 1 to 5.) Professor Hitchcock, Assistant Professor Judd and Mr. Cartzdafner.
18. **Machine Designs.** Five credit hours. Recitations on Unwin's Machine Design, with lectures on American practice. (Course in Chemical Engineering, fourth year, first term, M., Tu., W., Th., F., at 11. Course in Mechanical Engineering, fourth year, first term, M., Tu., W., Th., F., at 9. Courses in Chemical and Mechanical Engineering, fourth year, second term, M., Tu., W., Th., F., at 11.) Professor Magruder.
19. **Machine Design.** Five credit hours. Practical applications of the principles of machine design. (Courses in Chemical and Mechanical Engineering, fourth year, third term, M., 1 to 5; Tu., W., 1 to 4.) Professor Magruder.
21. **Thesis Work.** Five credit hours. (Course in Mechanical Engineering, fourth year, third term.) Professor Magruder and Professor Hitchcock.
23. **Materials of Construction.** Four credit hours. Lectures on the materials used in architectural and building construction, and laboratory exercises on their properties. (Course in Architecture, fourth year, first term, Tu., Th., at 8; Tu., F., 1 to 5.) Professor Hitchcock.
24. **Experimental Engineering Laboratory.** Three credit hours. Arranged to meet the needs of those desiring to elect advanced laboratory work. (First and second terms. Elective to third and fourth year engineers.) Professor Hitchcock Assistant Professor Judd.
25. **Continuation of Course 17.** Five credit hours. Tests of steam, power, rotary and centrifugal pumps, water motors and turbine wheels.

- (Course in Civil Engineering, fourth year, third term, Th., 9; M., Tu., 1 to 5.) Professor Hitchcock, Assistant Professor Judd and Mr. Cartzdafner.
26. **Steam Machinery.** One credit hour. One lecture a week on the care of steam engines and boilers, pumps and injectors, and of ammonia refrigerating machinery. (Course in Dairying, second term, F., at 1.) Professor Magruder.
 27. **Continuation of Course 12.** Five credit hours. Testing materials of construction, steam engine, hot air engine and air compressor tests, transmission and absorption dynamometer trials and testing of belts. (Course in Mechanical Engineering, fourth year, first term, M., 1 to 5; F., 10 to 12, 1 to 5.) Professor Hitchcock, Assistant Professor Judd and Mr. Cartzdafner.
 28. **Experimental Engineering Laboratory.** Two credit hours. Testing materials of construction, transmission and absorption dynamometer tests, testing of lubricating oils. (Course in Electrical Engineering, third year, third term, Th., or F., 1 to 5. Course in Manual Training, fourth year, third term, F., 1 to 5.) Assistant Professor Judd and Mr. Cartzdafner.
 29. **Continuation of Course 28.** Two credit hours. Testing of pressure gauges and indicator springs, steam engine indicator practice and steam engine trials. (Course in Electrical Engineering, fourth year, first term, Tu. or Th., 10 to 12, 1 to 5. Course in Industrial Arts, fourth year, second term, W., 1 to 5.) Assistant Professor Judd and Mr. Cartzdafner.
 30. **Continuation of Course 29.** Two credit hours. Steam engine and boiler trials, steam and power pump tests and hydraulic experimentation. (Course in Electrical Engineering, fourth year, second term, Tu., Th., 1 to 5. Course in Industrial Arts, fourth year, third term, F., 1 to 5.) Assistant Professor Judd and Mr. Cartzdafner.
 31. **Hydraulic Machinery.** Three credit hours. Recitations and lectures on pumping machinery. (Course in Mechanical Engineering, fourth year, third term, Tu., Th., at 8; W., at 9.) Professor Hitchcock.
 32. **Mechanical Engineering of Power Plants.** Five credit hours. A descriptive study of steam and gas engines, boilers, pumps, injectors and other machinery used in plants generating power. (Course in Chemical and Electrical Engineering, and Industrial Arts, third year, third term, M., Tu., W., Th., F., at 9. Course in Mechanical Engineering, third year, third term, M., Tu., W., Th., F., at 11. Course in Manual Training, fourth year, third term, M., Tu., W., Th., F., at 9.) Professor Magruder.
 33. **Steam Engines and Boilers.** Five credit hours. A detail study of steam using and steam generating machinery. (Courses in Electrical and Mechanical Engineering, fourth year, first term, M., Tu., W., Th., F., at 8.) Professor Magruder.
 34. **Thermodynamics.** Five credit hours. Lectures and recitations on the transmutations of heat and mechanical energies in steam, gas and air engines, and in air and ammonia compressors, together with a study of the tests of ideal and actual engines and of their indicator diagrams; the flow of gases through pipes and orifices. (Course in Mechanical Engineering, fourth year, second term, M., Tu., W., Th., F., at 8.) Professor Magruder.
 35. **Experimental Engineering Laboratory.** Five credit hours. (Option, Course in Chemical Engineering, fourth year, second term, M., at 9, M., Tu., 1 to 5.) Professor Hitchcock, Assistant Professor Judd and Mr. Cartzdafner.

36. **Experimental Engineering Laboratory.** Five credit hours. Lectures and recitations on power transmission, steam engines and boilers. Laboratory; testing pressure gauges, indicator springs, etc.; valve setting; testing of steam engines, steam, power and centrifugal pumps; boiler and fuel trials. (Courses in Ceramics and Mine Engineering, fourth year, third term, Tu., Th., 10 to 11, W. Th., 1 to 4.) Professor Hitchcock, Assistant Professor Judd and Mr. Cartzdafner.

METALLURGY

Office, Chemical Hall, Room 5

PROFESSOR N. W. LORD, MR. SOMERMEIER, MR. SPITLER.

2. **Mineralogy.** Three credit hours. Lectures arranged so as to be preparatory to Determinative Mineralogy (Course 3.) (Courses in Chemical and Mining Engineering, second year, third term; Course in Ceramics, third year, third term, M., W., F., 11.) Professor N. W. Lord.
3. **Determinative Mineralogy.** Five credit hours. Laboratory course in practical determination of minerals by physical and chemical tests. Each student is furnished with a set of apparatus, and works under an instructor's inspection. Brush and Penfield's Determinative Mineralogy is used as a manual. (Course in Mining Engineering, third year, third term, M., Tu., W., 1 to 4.) Professor Lord, Mr. Somermeier, Mr. Spitler.
4. **Metallurgy.** Five credit hours. A course of lectures upon fuel and its uses, iron and steel, copper, lead, gold and silver, their properties, tests, ores and details of the methods of reduction. The lectures are supplemented by a careful study of references to standard works and journals. (Course in Mining Engineering, third year; option, Course in Chemical Engineering, fourth year, first and second terms, M., Tu., W., Th., F., 9. Course in Industrial Arts and Mechanical Engineering, third year; Course in Ceramics, fourth year, first term, M., Tu., W., Th., F., at 9.) Courses in Industrial arts and Mechanical Engineering, third year, first two-fifths of the second term, M., Tu., W., Th., F., at 9.) Professor Lord.
5. **Metallurgical Laboratory.** Five credit hours. Lectures and laboratory work. Laboratory practice in the analysis of iron and steel, fuel and slags, and the assay of lead, copper and zinc ores by wet methods, using approved methods as practiced in technical laboratories of metallurgical works. Course 5 must be preceded by Chemistry 7. (Course in Mining Engineering, second year, first, second and third terms; Course in Chemical Engineering, third year, first term, W., Th., F., 1 to 4.) Professor Lord, Mr. Somermeier, Mr. Spitler.
6. **Assaying.** Laboratory work. Five credit hours. Practical work in the assaying of gold, silver and lead ores, by furnace methods. (Courses in Chemical and Mining Engineering, third year, second term, M., Tu., 11, 1 to 5.) Professor Lord, Mr. Somermeier, Mr. Spitler.
7. **Metallurgical Construction.** Three credit hours. Practice in the designing of furnaces and other metallurgical machinery, including detail drawings and estimates. (Course in Mining Engineering, fourth year, second term, Th., F., 1 to 4.) Professor Lord, Professor Ray.
8. **Ore Dressing and Coal Washing.** Two credit hours. Instruction in the methods of concentrating and enriching ores and fuels by mechanical means. Lectures, with reference to standard books and various papers in technical journals. (Course in Mining Engineering, fourth year, first term, Tu., F., 10.) Professor Lord.

9. **Mineral Chemistry.** Five credit hours. Lectures upon fire-damp, mine explosions, explosives, boiler waters, poisonous gases, iron ores; iron and steel, their properties and modes of manufacture; coal and coke. (Short Course in Mining, second year, third term, M., Tu., W., Th., F., at 8.) Professor Lord.

MILITARY SCIENCE AND TACTICS.

The Armory.

CAPTAIN GEORGE L. CONVERSE, U. S. A. (Retired.)

The Military Department is open five days during each week of each term.

1. **Military Drill.** Four times a week from the opening of college till the Thanksgiving vacation; four times a week from Thanksgiving till April first; four times a week till the close of the school year. Required of all able-bodied male students during first and second years of their course. M., Tu., W., Th., at 4.
2. **Tactics.** Lectures and recitations. Once a week. Second term.
3. **Art of War.** Lectures and recitations. Once a week. Second term.

MINE ENGINEERING

Office, Brown Hall, Room 21

PROFESSOR RAY.

1. **Mine Surveying.** Five credit hours. Lectures and field practice. This is similar to Course 4, but more elementary. The same text is used. The students have more practice in the drawing room. (Short Course in Mining, second year, first term, M., Tu., W., Th., F., at 11.) Professor Ray.
2. **Ventilation and Haulage.** Five credit hours. Lectures illustrated by experiments and maps of mines and models when possible, tests by safety lamps and anemometers, and methods of air distribution in coal mines. (Short Course in Mining, second year, second term, M., Tu., W., Th., F., at 11.) Professor Ray.
3. **Mine Operating.** Five credit hours. A course of lectures and practical instruction in mine book-keeping and accounts, cost of working, etc., particularly adapted to Ohio coal mining. (Short Course in Mining, second year, third term, Tu., Th., F., at 10, M. 9 to 11. Professor Ray.
4. **Mine Surveying.** Five credit hours. Field practice in the use of instruments for surface and underground surveys. Full notes are taken and maps and plans made in the drawing room. Davies' Surveying by Van Amringe is used as a text-book. (Courses in Mining Engineering and Ceramics, third year, first term, M., Tu., Th., F., at 10, M., 1 to 3.) Professor Ray.
5. **Mine Engineering.** Five credit hours. Lectures. Mine operating, mining machinery, ventilation, shaft-sinking, working out deposits, etc. Constant reference is required to the standard works and to the leading technical journals, with practice in designing mine plants, draughting and estimates. (Course in Mining Engineering, fourth year, first, second and third terms, M., Tu., W., Th., F., at 8.) Professor Ray.
6. **Plans and Specifications.** Five credit hours. (Course in Mining Engineering, fourth year, third term, M., Tu., W., Th., F., at 8.) Professor Ray.

7. **Surveying.** One credit hour. Practical experience in surveying in some mine convenient to Columbus; the time taken in one trip of not more than four consecutive days. (Course in Mining Engineering, third year, second term, Short Course in Mining, second year, second term. Professor Ray.

PHARMACY

Office, Room 4B Veterinary Laboratory.

PROFESSOR KAUFFMAN, ASSISTANT PROFESSOR DYE.

6. **Pharmacy.** Three credit hours. First term. General pharmaceutical processes. Lectures three times a week. M., W., F., 9 to 10. Room 3B Veterinary Laboratory. Professor Kauffman.
7. **Pharmacy.** Five credit hours. Second term. United States Pharmacopoeia official preparations. Lectures M., W., at 9. Laboratory for students in Short Course, Th., F., 1 to 4. Laboratory for students in Long Course, Th., 10 to 12; Sat. 8 to 12. Room 1A Veterinary Laboratory. Professor Kauffman, Assistant Professor Dye.
8. **Dispensatories.** Five credit hours. Third term. Official preparations. Lectures, M., W., at 9. Laboratory for students in Short Course, Th., F., 1 to 4. Laboratory for students in Long Course, Th., 10 to 12; Sat., 8 to 12. Room 1A Veterinary Laboratory. Professor Kauffman, Assistant Professor Dye.
10. **Extemporaneous Pharmacy.** Five credit hours. Second term. Second year. Prescription practice. Laboratory practice three times a week. Lectures, Tu., Th., 11 to 12. Laboratory, Tu., W., 1 to 4. Room 1A Veterinary Laboratory. Professor Kauffman, Assistant Professor Dye.
11. **General Practice.** Five credit hours. Third term. Lectures, dispensing and prescription practice. Lectures, Tu., Th., at 11. Laboratory, Tu., W., 1 to 4. Room 1A Veterinary Laboratory. Professor Kauffman and Assistant Professor Dye.
12. **Materia Medica.** Three credit hours. First term. Official drugs and classifications. Lectures, M., W., F., at 11. Room 5A Veterinary Laboratory. Assistant Professor Dye.
13. **Materia Medica.** Three credit hours. Second term. Official and unofficial drugs. Lectures and recitations. M., W., F., 11 to 12. Room 5A Veterinary Laboratory. Assistant Professor Dye.
14. **Materia Medica and Therapeutics.** Three credit hours. Third term. Synthetic products. Poisons and Antidotes. Lectures and recitations. M., W., F., at 11. Room 5A Veterinary Laboratory. Assistant Professor Dye.
15. **Pharmaceutical Assaying.** Five credit hours. First term. For time, consult professor in charge. Professor Kauffman.
16. **Methods of Manufacture.** Five credit hours. Second term. For time, consult professor in charge. Professor Kauffman.
17. **General Pharmacy.** Five credit hours. Third term. Two lectures, three laboratory periods a week. For time, consult professor in charge. Professor Kauffman.
18. **Pharmacognosy.** Three credit hours. Second term. Lecture once a week. Two laboratory periods a week. For time, consult professor in charge. Associate Professor Dye.

19. **Pharmacognosy.** Three credit hours. Third term. Lectures and laboratory. Continuation of Course 18.
20. **Pharmacognosy.** Three credit hours. First term. Lectures and laboratory.

PHILOSOPHY

University Hall, Rooms 33, 49, 50, 51

PROFESSOR SCOTT, ASSISTANT PROFESSOR HAINES, DR. DAVIES.

The first year's work in the Department may be any one or more of the following groups of courses:—

	First Term.	Second Term.	Third Term.
1.....	18	18	19
2.....	19	18	18
3.....	18	18	20
4.....	22a	21	21
5.....	19	21	21
6.....	22a	22b	20
7.....	22a	18	18

UNDERGRADUATE COURSES

18. **General Psychology.** Three credit hours. Sec. I: First and second terms. M., W., F., at 11; Professor Scott. Sec. II: second and third terms, M., W., F., at 9; Assistant Professor Haines.

19. **Logic.** Three credit hours. Sec. I: Third term. M., W., F., at 11; Professor Scott. Sec. II: First term. M., W., F., at 9; Assistant Professor Haines.

Students who take Rhetoric 3 during the same year should enter Section II, in which course 19 will precede course 18.

20. **Ethics.** Three credit hours. Third term. M., W., F., at 3. Professor Scott.

Those who take course 18 during the first two terms will have an option between courses 19 and 20 for the third term. The instruction in these courses is given by text-book, lectures and collateral reading.

21. **History of Modern Philosophy.** Three credit hours. Second and third terms. M., W., F., at 8. Dr. Davies.

- 22a. **History of Ancient Philosophy.** Three credit hours. First term. M., W., F., at 8. Dr. Davies.

- 22b. **History of Mediaeval Philosophy.** Three credit hours. Second term. M., W., F., at 9. Dr. Davies.

These historical courses aim to present a comprehensive view of the field and to trace the historical development of philosophic thought during the designated periods. One thesis will be required each term.

29. **Introduction to Experimental Psychology.** Three credit hours. Three terms. Tu., Th., 1 to 3. Lecture Th., at 1. Assistant Professor Haines.

This is a practice course intended to familiarize the student with the experimental method in psychology and at the same time bring him in touch with some of the more important results of recent psychological investigation. It is the natural preparation for the research work

offered in course 30. But it offers a distinct service to those who do not intend to do further work in experimental psychology. It brings one to a first hand acquaintance with the standpoint of psychology as an empirical science; and constitutes a valuable course of training in introspection. The course must be preceded or accompanied by Philology 18 or Zoology 21. Titchener's Experimental Psychology will be used as a laboratory guide.

UNDERGRADUATE AND GRADUATE COURSES

Most of the following courses are designed primarily for graduate students. Many of them may be pursued with profit by undergraduates who have had such as two years of preparation, and a few of them by those who have had a single year of previous work. For example, courses 23, 24, 25 may immediately follow courses 18 and 19 or courses 18 and 20, and the historical courses be pursued by those who have successfully completed courses 22 and 21.

Conspectus of Philosophy. Three credit hours. First term. M., W., F., at 2. Professor Scott.

Theory of knowledge. Three credit hours. Second term. M., W., F., at 2. Professor Scott.

Metaphysics. Three credit hours. Third term. M., W., F., at 2. Professor Scott.

Course 23 proposes a logical survey of the whole field of philosophy, determining the content, boundaries, and relations of its several departments, and investigating as far as time permits the conceptions and problems of each. It, with courses 24 and 25, must be preceded by courses 18 and 19 or courses 18 and 20, and it is desirable that they should be preceded or accompanied by courses 22 and 21. Kulpe's Introduction to Philosophy or a similar book will be used as a text with collateral use of Paulsen, Ladd and Stuckenberg.

Courses 24 and 25 constitute a continuous study in fundamental philosophy, the former concerning itself primarily with the subjective, and the latter with the objective, aspects of the problems considered. In the former the main topics will be the nature and laws of thought, the categories and the relations of knowledge and belief, and of knowledge and reality. In the latter the special problem will be the nature of reality. Theses will be required during the year, not less than one for each term.

Advanced Psychology. Two credit hours. Three terms. Tu., Th., at 9. Dr. Davies.

This course is intended for students who may wish to carry their study of systematic Psychology beyond the limits of the elementary course 18. The purpose is to give the student facility in handling psychological questions in dependence upon the results of psychological inquiry. It will include during the first two terms an analytic and genetic treatment of selected topics; and in the third term the more important psychological theories will be presented and an attempt made to formulate a general theory of mental life. Baldwin's "Handbook of Psychology" will be used as the basis of the study, but constant reference will be made to the works of James, Sully, Ladd, Wundt, Höffding and other representative psychologists, as well as to current periodicals.

Philosophy of Science. Two credit hours. Three terms. Tu., Th., at 2. Professor Scott.

Course 27 has for its purpose to investigate the postulates and concepts of physical science. It will include such subjects as causality, mechanism and teleology, the existence and nature of matter and mind, the relation between them, and man's place in nature. Assigned readings, with reports and discussions, in Hume, Mill, Lotze, Spencer and others. One thesis will be required each term.

28. **Philosophy of Religion.** Two credit hours. Three terms. Tu., Th., at 2. Professor Scott.

This course includes a study of the nature of religion, the foundations of religious belief, the relations of philosophy to religion, and religious problems, such as the existence and nature of God, the problem of evil, and human immortality. Assigned readings, with reports and discussions in Spinoza, Kant, Fichte, Schleiermacher, Lotze, Pfleiderer, Martineau and others. One thesis will be required each term. Courses 27 and 28 are alternative. Which of them will be given in 1903-04 will be decided after consultation with the class.

30. **Research Work in Experimental Psychology.** Two or more credit hours. Three terms. Hours to be arranged. The psychological laboratory is open to students with suitable preparation to prosecute original investigations. The equipments in the laboratory and library, which are constantly increasing, make such work well worth the consideration of any student interested in the phenomena of mind. Philosophy 18 and 29 are required as preparation for this work. The arrangement of hours will be subject to the needs of the individual student. At least two hours must be taken. Assistant Professor Haines.

31. **Plato.** Two credit hours. Three terms. Tu., Th., at 3. Dr. Davies.

32. **Aristotle.** Two credit hours. Three terms. Tu., Th., at 3. Dr. Davies.

Only one of these two courses will be given each year, but it will be course 31 or 32, as the class may elect. The work will consist of readings from English translations of the author chosen and from commentaries and criticisms such as those of Zeller, Grote, Nettleship, and Pater on Plato, and Grote, Lewes, Grant and Davidson on Aristotle. Lectures on special problems suggested by the author will be given.

33. **Descartes and Spinoza.** Three credit hours. First term. M., Th., F., at 10. Dr. Davies.

34. **Locke and Leibnitz.** Three credit hours. Second term. M., Th., F., at 10. Dr. Davies.

35. **Berkley, Hume and Reid.** Three credit hours. Third term. M., Th., F., at 10. Dr. Davies.

36. **Kant, Fichte, Schelling and Hegel.** Three credit hours. Three terms. Not offered in 1904-1905.

Courses 33, 34 and 35 constitute one year's work, and will alternate with course 36. The first three are preparatory to the last and will be given in 1904-1905. Assigned portions of the leading works of the thinkers named will be studied and discussed, and an attempt will be made to obtain a clear conception of the author's system as a whole, and of his position on particular important problems of philosophy. One thesis will be required each term.

37. **Later German Philosophy.** Three credit hours. Three terms. M., Th., F., at 10. Assistant Professor Haines.

Following in historic order upon course 36, this course will deal with the German successors of Herbart and Hegel, and with Herman Lotze and Gustav Fechner. Greatest stress will be placed upon Lotze and his successors in Germany and America.

38. **Recent and Current Philosophy.** Three credit hours. Three terms. M., Th., F., at 10. Assistant Professor Haines.

This course will be primarily concerned with the neo-Hegelian movement and its recent exponents in America and England. It will resolve itself into a study of present day idealism as set forth by its leading representatives in these countries. Three hours throughout the year. Only one of these courses (37 and 38) will be given in 1904-1905. Which one shall be given will be decided on consultation with the class.

Psychological Seminary. Two credit hours. Three terms. Time to be arranged. Assistant Professor Haines.

A research course for advanced students. Subject for the year, the Will, or, more broadly, the conative life. The first manifestations and development of volition in children, a comparative study of will, the relations of instinctive and voluntary reactions, aboulia and impulsive insanities, and the manifestations of will in crowd phenomena, are topics which will sufficiently indicate the line of work. Lectures, readings, discussions and theses.

Ethical Seminary. Two credit hours. Three terms. Hours to be arranged. Professor Scott.

This course will be devoted in 1904-1905 to the historical and critical study of one or more of the great problems of ethics. The work will consist of assigned readings, papers and discussions.

Philosophical Seminary. Two credit hours. Three terms. Hours to be arranged. Dr. Davies.

This course will undertake a systematic study of the problem of knowledge. The consideration of the nature and conditions of formal truth will constitute the first part of the work, and Hobhouse's *Theory of Knowledge* will be read. This will be followed by a study of the psychology of knowledge, and by an examination of the nature, grounds, limits, and validity of our knowledge of reality. Ladd's *Philosophy of Knowledge* indicates the character of the discussion in the second part, and will be read in connection. The method of study combines lectures with papers and discussions by the class.

Comparative Psychology. Two credit hours. Three terms. Tu., Th., at 8. Assistant Professor Haines.

The course covers a broad field. It purposes to carry on the study of mind, begun in Philosophy 18. The interest there developed in the workings of the individual mind is here further satisfied by the insight afforded by comparative study. Comparisons of different minds are fruitful in insight into the mechanism of the individual mind. The three terms take up (1) Animal Psychology, (2) Child Psychology, and (3) Social Psychology.

Scientific Method. Two credit hours. Tu., Th., at 9. Assistant Professor Haines.

A study of the general methods of scientific procedure—the general methods by which science grows. It is not a study of the special methods of any individual science, though of course the illustrative material must be found in special fields. This concrete illustrative material reveals the presence of methods, more or less general, logical or mathematical. Candidates for the work should have an intimate acquaintance with some one science.

Advanced Ethics. Two credit hours. Three terms. Tu., Th., at 3. Some of the subjects considered in Philosophy 20 will receive a more thorough examination, and some of the leading theories of ethics will be studied. It is open only to students who have had courses 18 and 20. Professor Scott.

Esthetics. Two credit hours. Three terms. Hours to be arranged. This course will consider the subject of the beautiful from three points of view. 1, Historical: This will deal with the origin and development of art products in their dependence upon social and economic conditions; 2, Psychological: A consideration of the nature of the art impulse in its individual and social aspects; 3, Philosophical: A discussion of the relation that the Beautiful sustains toward the True and the Good with a view to the formulation of a theory of the beautiful as part of a philosophical system. Dr. Davies.

46. **Abnormal Psychology.** Two credit hours. Three terms. Tu., Th., at 8. Assistant Professor Haines. Omitted in 1904-5.

A systematic study of the abnormal states of the human mind. The chief types of mental disease are passed in review, in order to obtain a definite picture of each, and also to obtain by the perspective thus afforded a clearer view of the normal mental processes. A psychological analysis of the various forms of insanity, for the student of psychology, education or medicine. Defendorf's Clinical Psychiatry will be used as text, supplemented by lectures; and the exceptional facilities which Columbus affords for such work will be utilized.

PHYSICAL EDUCATION

For Men

The Gymnasium and Armory

PROFESSOR LINHART, MR. HUDDLESON.

1. **Gymnasium.** Second term. Required of all young men during the first and second years of their course. M., T., W., Th., at 4.

PHYSICAL EDUCATION

For Women

The Gymnasium and Armory

ASSOCIATE PROFESSOR MARTIN.

1. **Gymnasium.** Three terms. Required of all young women during the first year of their course. M., Tu., Th., F., at 9 or 11.
2. **Gymnasium.** Three terms. Required of all young women during the second year of their course. M., Tu., Th., F., at 8 or 10. The right is reserved to discontinue one section if an insufficient number apply for work.

PHYSICS

Office, University Hall, Room 13

PROFESSOR THOMAS. PROFESSOR COLE, ASSISTANT PROFESSOR EARHART, MR. TUCKERMAN.

1. **Elementary Physics.** Five credit hours. Recitations and experimental lectures. Text: Carhart & Chutes' "Elements of Physics." (Short Courses in Mining, first year, first and second terms, M., Tu., W., Th., F., 8. Short Course in Clay-working, first year; Short Course in Industrial Arts, second year, first and second terms, M., Tu., W., Th., F., at 11.) Assistant Professor Earhart.
2. **Mechanics and Heat. Electricity and Magnetism. Sound and Light.** Three credit hours. Lectures and recitations. (All four-year courses, second year, first, second and third terms. M., W., F., at 9.) Professor Thomas.
3. **Physics.** Two credit hours. Extension of Course 2, with practice in solution of problems. (Courses in Electrical Engineering, Ceramics, Industrial Arts and Manual Training, second year, first, second and third terms, Tu., Th., at 9.) Professor Thomas, Assistant Professor Earhart, Mr. Tuckerman.

Electricity and Magnetism.—Three credit hours. Lectures and recitations. (Course in Electrical Engineering, third year, first term, M., Tu., Th., at 10.) Professor Thomas.

Physical Laboratory. Four credit hours. Elementary manipulation. Length, mass and time measurements. Work in density, elasticity and in heat. (Course in Electrical Engineering, second year, third term, M., Tu., 1 to 4, W., 1 to 3; or Th., F., 1 to 4. Option, Course in Manual Training, third year, first, second and third terms, M., Tu., 1 to 4, W., 1 to 3.) Professor Cole, Assistant Professor Earhart, Mr. Tuckerman.

Physical Laboratory. Five credit hours. Theory and practice of magnetic and electrical measurement, including the testing and standardizing of instruments; conductivity of conductors; insulation, capacity and resistance of insulated conductors and cables; temperature co-efficients; commercial measuring and testing instruments; strength and distribution of magnetic fields; magnetic moments; permeability; work in light, including optical constants; spectroscopy; photometry of gas, electric and other lights. (Course in Electrical Engineering, third year, first and second terms, M., Tu., W., 1 to 4.) Professor Thomas.

Physical Laboratory. Two credit hours. (Course in Mechanical Engineering, second year, second term, M., Tu., 1 to 3; or Th., F., 1 to 3.) Three credit hours. (Course in Mechanical Engineering, second year, third term, M., Tu., 1 to 4; or Th., F., 1 to 4.) Three to five credit hours. (First, second and third terms. Elective.) Professor Cole, Assistant Professor Earhart, Mr. Tuckerman.

Physical Laboratory. Three to five credit hours. A second year's work in Physical Laboratory. Course 9 must be preceded by Courses 6 or 7. Elective. Professor Thomas, Professor Cole, Assistant Professor Earhart.

General Physics. Three credit hours. Three terms. One lecture. Two laboratory periods a week. An elementary course for students who do not wish to do the more exact work of Physics 2. The laboratory exercises are performed by the class in sections. Sec. I: Tu., Th., 8 to 10; Sec. II: Th., F., 2 to 4; Sec. I and II: W., at 11. Professor Cole.

Laboratory. Three to five credit hours. Three terms. For those who have had, or who are taking Physics 2. The work begins with measurements of length, mass and time, and the study of instruments. Each student works alone. When sufficient skill in general manipulation has been acquired, the student is allowed much liberty in the selection of his work. The apparatus provided is sufficient to permit him to work in any desired branch of physics. M., Tu., W., 1 to 4. Professor Thomas, Professor Cole, Assistant Professor Earhart.

II. FOR ADVANCED UNDERGRADUATES AND GRADUATES

Laboratory. Three to five credit hours. Three terms. Prerequisites, a year's work in General Physics of college grade and a course in the laboratory, (Physics 2 and 12). May be taken as a graduate minor. Professor Thomas, Professor Cole.

Theoretical Physics. Three to five credit hours. Three terms. For 1904-1905 the following subjects are offered:

- (a) Advanced Light, based upon Preston's "Theory of Light," with frequent reference to the original memoirs of Newton, Fresnel, Young, Fraunhofer, Michelson, Rowland, Stokes, Zeeman, etc. (b) Radiation, with special reference to the electro-magnetic theory of light. (c) Theory of Heat. (d) Theoretical Physics. Christiansen. A course in Differential Equations or Analytical Mechanics is desirable as preparation. (e) Evolution of Experimental Physics, with special reference to recent methods and results.

Prerequisites for each of the above subjects, a year of College Physics (Physics 2) and Calculus. A laboratory course in Physics must precede or accompany. Professor Thomas, Professor Cole.

16. **Physical Seminary.** One credit hour. Three terms. Discussion of the current literature of physical research, and of assigned topics chosen to illustrate the progress of the science. Time to be arranged. Open to those who have had a year of college work in Physics. Professor Cole.

III. FOR GRADUATES.

15. **Advanced Laboratory.** Three to five credit hours. Three terms. Research work. Prerequisites, two years of laboratory work in Physics. Professor Thomas, Professor Cole.

PHYSIOLOGY

(See Anatomy and Physiology.)

POLITICAL ECONOMY

(See Economics and Sociology.)

POLITICAL SCIENCE

(See American History and Political Science.)

PSYCHOLOGY

(See Philosophy.)

ROMANCE LANGUAGES AND LITERATURES

University Hall, Rooms 35 and 34.

PROFESSOR BOWEN, ASSOCIATE PROFESSOR BRUCE, ASSISTANT PROFESSOR INGRAHAM.

I. FRENCH

Note—Courses 1 and 2 in French must precede all others (except Course 3).

1. **Elementary French.** Four credit hours. Three terms. Grammar: Fraser and Squair's or Grandgent's Essentials. Reader: Whitney's (Parts I and II), or Laboulaye's Contes bleus, or Bowen's First Scientific French Reader; historical and narrative prose; one or more prose comedies. In this course the study of the language is taken up from the beginning. Stress is laid upon the acquisition of a correct pronunciation, after which the entire energy of the student is directed toward the attainment of a full and accurate reading knowledge of the language. Grammar and composition are made to contribute to this end. Sight reading is emphasized. Sec. I: M., Tu., Th., F., at 10; Assistant Professor Ingraham. Sec. II: M., Tu., Th., F., at 11; Associate Professor Bruce. Sec. III: Tu., W., Th., F., at 2; Associate Professor Bruce. Sec. IV: Tu., W., Th., F., at 3; Professor Bowen.
2. **Modern French Literature.** Four credit hours. Three terms. Two sections, at 10 and 11, M., Tu., Th., F., and a third section, first and second terms, at 9, M., Tu., W., Th. The study of the literature as such is now taken up. The work of the year covers a survey of two or more of the following subjects: (1) Contes; (2) Novels (Balzac or Hugo); (3) Lyric Poetry (Bowen's Modern French Lyrics or Canfield's French Lyrics); (4) Romantic Drama (Hugo). Prose Composition (Bouvet or Chardenal). Lectures supplement the work; private reading required; systematic attention given to syntax and idiom. Open to those who have completed Course 1, or who have received credit for French as an entrance subject. Sec. I: M., Tu., Th., F., at 10; Associate Professor Bruce. Sec. II: M., Tu., Th., F., at 11. Professor Bowen.

3. **Science Reading.** Four credit hours. Third term. Herdler's Scientific French Reader and Luquiens' Popular Science, or other similar works. A course of rapid reading introductory to the vocabulary of scientific literature; to be preceded by two terms of French 2. Intended for engineering and science students, and required of all students in the College of Engineering who offer French as their entrance language. M., Tu. W., Th., at 9. Assistant Professor Ingraham.
4. **French Comedy of the Seventeenth Century.** Three credit hours. First term. Study of the growth of French Comedy, with work centering upon Moliere (three plays), and Regnard. Lectures and collateral reading. Professor Bowen. Given biennially, alternating with Course 16. M., Th., F., at 10. Not offered in 1905-1906.
5. **French Tragedy.** Three credit hours. Second term. Lectures and readings. Corneille, Racine and Voltaire. Critical study of *Le Cid*, *Andromaque*, *Esther* and *Zaire*. Professor Bowen. Given biennially. M., Th., F., at 10. Not offered in 1905-1906.
6. **Seventeenth Century Prose.** Three credit hours. Third term. Critical study of Descartes, Pascal, Bossuet and others (Warren's Selections), supplemented by lectures. Professor Bowen. Given biennially. M., Th., F., at 10. Not offered in 1905-1906.
7. **Advanced Prose Composition.** One credit hour. Three terms. Bouvet's and Cameron's French Composition. Intended for advanced students who desire special training on the practical side of the language. Tu., at 10. Professor Bowen.
8. **Literary Criticism in France.** Two credit hours. First term. Readings and lectures. Selections from Sainte-Beuve, Faguet, Lemaitre and others. Tu., Th., at 9. Associate Professor Bruce. Not offered in 1904-1905.
9. **Recent French Prose.** Two credit hours. Second term. Rapid reading with lectures. Critical study of some of the leading prose writers of the present, such as Bourget, Daudet, Loti, Zola and others. Tu., Th., at 9. Associate Professor Bruce. Not offered in 1904-1905.
10. **Practice in Speaking and Writing French—Based on Daudet's Stories.** Two credit hours. Third term. Students wishing to elect this course must have the consent of the instructor in charge. Tu., Th., at 9. Associate Professor Bruce. Not offered in 1904-1905.
11. **French Travel Writers.** Two credit hours. First term. Readings and lectures. Scenes of travel from Gautier, Hugo and Dumas. Tu., Th., at 9. Associate Professor Bruce. Alternates with Course 8. Not offered in 1904-1905.
12. **Eighteenth Century Prose.** Two credit hours. Second term. Readings and lectures. Selections from Voltaire (ed. Cohn and Woodward) or others. Tu., Th., at 9. Associate Professor Bruce. (Alternates with Course 9. Not offered in 1904-1905.
13. **Advanced Conversational Practice—Based on Stories of Coppee and Maupassant.** Two credit hours. Third term. Students wishing to elect this course must have the consent of the instructor in charge. Tu., Th., at 9. Associate Professor Bruce. Alternates with Course 10. Not offered in 1904-1905.
14. **French Seminary A.** Three credit hours. Three terms. Open only to fourth-year students of French, who have completed Courses, 1, 2, 4, 5, 6 and 7, or an equivalent. Given biennially. The subjects for the year 1904-1905 will be : (1) The Development of the French Novel, and (2) Recent Tendencies of French Drama. Toward the close of the year several lectures will be given on methods of Teaching French and the Teacher's Equipment. M., W., F., at 9. Professor Bowen.

15. **French Seminary B.** Three credit hours. Three terms. The same conditions as in course 14. Given biennially. Not offered in 1904-1905. For 1905-1906 the subjects will probably be: (first half-year) Old French (Cledat, Morceaux choisis), with emphasis of la Chanson de Roland (Paris); (second half-year) Sixteenth Century French (Darmesteter et Hatzfeld, Morceaux choisis), with critical study of Montaigne. M., W., F., at 9. Professor Bowen.
16. **French Comedy of the Eighteenth Century.** Three credit hours. First term. Lectures on the growth of French Comedy, with work centering upon Marivaux and Beaumarchais. M., Th., F., at 10. Professor Bowen. Given biennially. Not offered in 1904-1905.
17. **French Society in the Seventeenth Century.** Three credit hours. Second term. With special reference to the Precieux Movement. Crane's Selections. With lectures. M., Th., F., at 10. Professor Bowen. Given biennially. Not offered in 1904-1905.
18. **Precursors of French Romanticism.** Three credit hours. Third term. Rousseau, Chateaubriand (Bowen's Atala and Rene) and Madame de Stael. With lectures. M., Th., F., at 10. Professor Bowen. Given biennially. Not offered in 1904-1905.

II. ITALIAN.

1. **Elementary Italian.** Two credit hours. Three terms. Grammar (Grandgen's or Edgren's), and Bowen's First Italian Readings. Modern prose. Comedy (Goldoni). Students contemplating this course are advised to postpone such election until they have completed French 1, or its equivalent. Tu., Th., at 9. Associate Professor Bruce.
2. **Advanced Italian.** Two credit hours. Three terms. Classical drama. Dante (Vita Nuova, Inferno). Petrarch (Rime). Tu., Th., at 9. Given biennially. Offered in 1905-1906.

III. SPANISH.

1. **Elementary Spanish.** Four credit hours. Three terms. Grammar (Edgren's or Garner's), and Reader; (Matzke's or Ramsey's Stories and Plays. Composition and conversation. Two sections. M., Tu., Th., F., at 11. Tu., W., Th., F., at 3. Assistant Professor Ingraham.
2. **Advanced Spanish.** Two credit hours. Three terms. The modern novel. Classical drama. Don Quixote. With lectures. Advanced composition and conversation. Open to those who have completed course 1. Tu., Th., at 3. Professor Bowen. Not offered in 1904-1905.

Shopwork

(Industrial Arts and Shopwork.)

Sociology

(See Economics and Sociology.)

Spanish

(See Romance Languages.)

DEPARTMENT OF VETERINARY MEDICINE

PROFESSOR WHITE, PROFESSOR SISSON, ASSISTANT PROFESSOR UDALL,
ASSISTANT PROFESSOR BRUMLEY, ASSISTANT
PROFESSOR PHILLIPS.

Free clinic is held for two hours daily. (Saturdays, included) at this building inasmuch as from 1,000 to 1,500 animals are treated annually at this clinic, the students have ample opportunity to learn in a practical way the best methods of treating diseased and injured stock.

11. **Veterinary Anatomy...Osteology.** Ten credit hours. First term. Lectures illustrated with skeletons and anatomical preparations. Dissections. Dr. Sisson.
12. **Myology, Splanchnology.** Ten credit hours. Second term. Practical dissections and demonstrations on cadavers. Dr. Sisson.
13. **Angiology and Neurology.** Ten credit hours. Third term. Lectures illustrated by drawings, in the dissecting room and on anatomical models. Books recommended for reference and study: Stranveway's Veterinary Anatomy (new edition); Chauvau's Comparative Anatomy; McFaydean. Dr. Sisson.
14. **General Pathology and Morbid Anatomy.** Five credit hours. First term. Text-book: Green's Morbid Anatomy.

Lectures and recitations for students of the second year. This course of study forms the foundation for Theory and Practice (Special Pathology), and embraces the study of the various disease processes. The lectures are supplemented by demonstrations of museum specimens, and by post-mortem examinations upon all cases which die in the College Hospital. The processes especially studied are: Inflammation, Functional Disturbances, Fever, Anatomical Changes, Hyperaemia, Anaemia, Hemorrhage, Thrombosis, Embolism, Degenerations, Tumors, Stones and Concrements. Dr. White.
15. **Theory and Practice of Veterinary Medicine.** Five credit hours. Second term. Sporadic, non-infectious diseases. Dr. White.
16. **Theory and Practice of Veterinary Medicine.** Five credit hours. Third term. Dr. White.
17. **Diseases of the Cow.** Three credit hours. Second term. Special course for students in Dairying. Lectures and demonstrations consisting in the following: (a) Anatomy of the cow with special references to the digestive, reproductive and milk producing organs; (b) The more common non-infectious diseases of these organs and their treatment; (c) Most important infectious and contagious diseases and methods of preventing and dealing with them; (d) Practical methods of administering medicines, securing during operations, castings, etc. W., Th., F., at 9. Dr. White.
18. **Surgical Diseases.** Three credit hours. Four terms. Text-books: Friedberger and Froehner. Dr. Udall.
19. **Clinic.** Lectures. Six credit hours. Six terms. Dr. White, Dr. Udall, Dr. Brumley.
21. **Theory and Practice.** Lectures; illustrated by practical demonstrations, by drawings, on clinical cases. Head and neck. First term, third year. Dr. White.
22. **Therapeutics.** Three credit hours. Third term, third year. Dr. Brumley.

23. Obstetrics. Five credit hours. Third term, third year.

The course in Obstetrics is given during the third year, one term being devoted to this branch. The lectures, recitations and class-room demonstrations are amplified as much as possible by taking advantage of the clinical material afforded by an environing live-stock and dairying district.

Students have a particular advantage in coming in actual contact with cases of dystokia, foetal, placental, and maternal, and are required to assist in all obstetrical operations upon animals in labor, under the direction of the instructors. Dr. Udall.

24. General Surgery. Two credit hours. First term, first year. Dr. Udall.

25. Practice in Operating. Three credit hours. Second term, third year. Dr. Udall.

26. Horse Shoeing. Three credit hours. First term, third year. This subject is taught by a series of about fifty lectures, recitations and demonstrations upon prepared specimens and clinical cases, and embraces the following: The anatomy of the horse's foot; relationship of the outer skin to the foot; parts nurturing the horn; how horn grows; physiological mechanism of the foot; relationship of the foot to the rest of the limb and the influence of conformation over forms of hoofs; flight of feet; forms of hoofs; judging horses for shoeing; preparation of the hoof for the shoe; summer and winter shoes; fitting shoes to the hoof; nails; hoof nurture; shoeing for defective gaits; shoeing for lameness; shoeing for faulty conditions of the horny capsule; use of rubber pads, buffers, etc. Dr. White.

27. Meat Inspection. Lectures and recitations. Three credit hours. Second term, third year. Dr. Phillips.

Thirty-six recitations and lectures are given on the subject of Meat Inspection. These lectures include the normal character of the various organs of the meat-producing animals; rules and regulations for the inspection before and after slaughter; diseases due to the infestation with animal parasites; diseases due to the infection with vegetable parasites; putrid meat; over-heated meat; emaciated meat; foetal meat; natural death; abnormal odors and colorations of meat and fat; imperfect bleeding; disposition of diseased meat, etc.

As this course embraces much morbid anatomy, it is just as valuable to those who intend entering regular veterinary practice as to those who contemplate taking the civil service examination for meat inspectors in the Bureau of Animal Industry.

28. Veterinary Anatomy. Four and one-half credit hours. First term. (For Agricultural Students.) Brief outline of the anatomy of the horse and ox. Lectures, recitations, clinical practice and demonstrations. M., Tu., W., at 8. Clinical practice Th. afternoon. Dr. Sisson.

29. Veterinary Practice. Four and one-half credit hours. Second term. (For Agricultural Students.) The more common diseases of a non-infective character, to which farm animals are subject. Minor surgery, castration, and the principles of horseshoeing are included in this course. Lectures, recitations and practicum. M., Tu., Th., at 10. Practicum, Th. afternoon. Dr. White.

30. Veterinary Practice. Three credit hours. Third term. (For Agricultural Students.) The most common infectious and contagious diseases affecting farm and dairy animals, and the most scientific methods of preventing, dealing with and treating the same. Lectures, recitations and practicum. M., Tu., Th., at 10. Practicum, Th. afternoon. Dr. White.

31. Canine Diseases. Five credit hours. Second term, third year.

This course is taught by recitations, lectures, and practical demonstrations in the daily clinics and on subjects anæsthetized for the operating table. Dr. Brumley.

Supplementary lectures will be given on the origin and history of the dog, psychical characteristics, zoological position of the dog, with a comparison of the different breeds of dogs, their peculiarities, habits, etc. One term of five hours each week. Dr. Brumley.

33. **Ophthalmology.** Two credit hours. Third term, third year. A short course of twenty lectures is given on diseases of the eye. This course includes: Methods of examining the eye; the use of the ophthalmoscope; use of artificial and natural illumination; use of mydriatics; diseases and treatment of the organs surrounding and adjacent to the bulbus; diseases of the bulbus and their treatment. The lectures are supplemented by clinical demonstrations, and the students are given practice in the use of the most practical instruments for eye examination. Dr. White.
34. **Pathology Laboratory.** Three credit hours. Second and third terms, second year. Dr. Phillips.
36. **Pathology Laboratory.** Three credit hours. First term, third year. Dr. Phillips.
37. **Topographical Anatomy.** Five credit hours. First term, second year.

These are laboratory courses supplemented by lectures. They consist of three laboratory periods per week for an entire year, beginning with the second term of the second year and ending with the first term of the third year. The student is taught the correct methods of making autopsies and how to judge correctly ante-mortem and post-mortem changes in the tissues.

The holding of autopsies, preservation of tissues, the preparation, staining, microscopical examination and description of pathological tissue sections is done by the student. This course also includes the study of ecto and ento-parasites and pathological bacteriology. Dr. Sisson.
38. **Materia Medica.** Five credit hours. Three terms. Dr. Brumley.

ZOOLOGY AND ENTOMOLOGY.

Biological Hall, Rooms 3, 4, 7, 8 and 9.

PROFESSOR OSBORN, ASSOCIATE PROFESSOR HINE, ASSOCIATE
PROFESSOR LANDACRE.

1. **Invertebrate and Vertebrate.** Three credit hours. Three terms. Open to first year students and preliminary to other courses. Invertebrate, first and second term; Vertebrate, third term. This course includes a general discussion of groups, dissection of types and an outline of classification. Lecture. Tu., Th., at 8, or M., F., at 10; Professor Osborn. Associate Professor Landacre. Laboratory, Sec. I: F., 1 to 4; Sec. II: Th., 1 to 4; Sec. III: W., 1 to 4; Sec. IV: M., 2 to 4; Sec. V: Tu., 2 to 4.
2. **Comparative Anatomy of Vertebrates.** Three or five credit hours. Three terms. Must be preceded by Course 1 or equivalent. One hour quiz; two or four periods laboratory. Wiedersheim's Comparative Anatomy of Vertebrates is used as a basis. Quiz, W., at 1; Laboratory, W., Th., Fr., 1 to 4. Associate Professor Landacre.
3. **Economic Entomology.** Two and one-half credit hours. Third term. Insects of forest, orchard and garden. A detailed study of injurious species intended particularly for students of Horticulture. The work includes field studies, collections, reports on observations, etc. Lectures and recitations, Th., 9. Laboratory, F., 9 to 12. Associate Professor Hine.

4. **Economic Entomology.** Two and one-half credit hours. Three terms. This course must be preceded by Course 1. A systematic study of the group of insects with special reference to injurious and beneficial species. A foundation is laid for special study in Entomology. Preparation of collections, essays, life history studies and use of remedial measures along with laboratory studies on general anatomy. Recitations and lectures, F., 9. Laboratory, Tu., 1 to 4. Associate Professor Hine.
5. **Economic Entomology.** Three credit hours. First term. Insects of the household. Discussions of the different insects of importance in the household as injurious to food materials, clothing, carpets, draperies, etc. Fourth year; course in Domestic Science. Tu., W., Th., 9. Professor Osborn.
7. **Systematic and Practical Entomology.** Third term. Two lectures and one laboratory period a week. An elementary practical course for students in the Short Course in Agriculture. Associate Professor Hine.
8. **Parasites of Domestic Animals.** One credit hour. First term. A lecture course devoted to the principal parasites affecting domestic animals intended especially to meet the needs of those who intend to give particular attention to stock raising. Elective. Time arranged. Professor Osborn.
9. **Special Entomology.** Four credit hours. First term. Studies of life histories, collection and classification in selected groups. Field work and lectures. Elective. Time arranged. Professor Osborn.
10. **Special Entomology.** Four credit hours. Second term. Studies of winter condition of insects. Insecticides. Insecticide machinery, methods of preparing insect illustrations, greenhouse pests, etc. Elective. Time arranged. Professor Osborn.
11. **Special Entomology.** Four credit hours. Third term. Investigations of selected groups or species. Lectures on insect legislation, distribution, natural enemies, special methods of control, etc. Elective. Time arranged. Professor Osborn.
12. **Gross Anatomy of the Frog.** Three or five credit hours. First term. Must be preceded by Course 1. Ecker's Anatomy of the Frog and Huxley and Martin's Practical Biology. Laboratory, W., Th., F., 1 to 4. Associate Professor Landacre.
13. **Minute Anatomy of the Frog.** Three or five credit hours. Second term. Must be preceded by Course 1. Continuation of 12, but devoted particularly to a study of the tissues. Laboratory, W., Th., F., 1 to 4. Associate Professor Landacre.
14. **Embryology of the Frog.** Three or five credit hours. Third term. Must be preceded by Course 1 Laboratory, W., Th., F., 1 to 4. Associate Professor Landacre.
15. **Invertebrate Morphology. I.** Three or five credit hours. First term. I. Must be preceded by course 1. Devoted to lower Invertebrates, especially Protozoa and Coelenterata, Parker and Haswell, Lang, McMurrick, Shipley and other works are used for reference. Lecture, Tu., 2; Laboratory, M., Tu., W., Th., F., 2 to 4. Professor Osborn.
16. **Invertebrate Morphology. II.** Three or five credit hours. Second term. II. Must be preceded by Course 1. Will usually be devoted to Worms and Mollusks. References as in 15. Lecture, Tu., at 2; Laboratory, M., Tu., W., Th., F., 2 to 4. Professor Osborn.
17. **Invertebrate Morphology. III.** Three or five credit hours. Third term. III. Must be preceded by Course 1. Usually devoted to Arthropoda. Above references and Packard's Text-book of Entomology. Lecture, Tu., at 2; Laboratory, M., Tu., W., Th., F., 2 to 4. Professor Osborn.

18. **Invertebrate Embryology.** Three or five credit hours. Three terms. Must be preceded by Course 1. Korschelt and Helder used as a basis. Lecture, Tu., at 2; Laboratory, M., Tu., W., 1 to 4. Professor Osborn.
19. **Vertebrate Embryology: Karyokinesis, etc.** Three or five credit hours. First term. Must be preceded by Course 1. Hertwig, Marshall, Balfour, Minot, Foster and Balfour are used as references. Lecture, M., at 1; Laboratory, M., Tu., W., 1 to 4. Associate Professor Landacre.
20. **Vertebrate Embryology: Chick and Mammal.** Three or five credit hours. Second and third terms. Must be preceded by Courses 1 and 19. Foster and Balfour used as a guide. Lecture, M., 1; Laboratory, M., Tu., W., 1 to 4. Associate Professor Landacre.
21. **Comparative Neurology.** Three or five credit hours. Three terms. Should be preceded by Course 1 or equivalent, but is open to advanced students in psychology or pedagogy. Includes study of brain and spinal cord in all classes of vertebrates. Eninger, Lectures on the Central Nervous System is followed and numerous treatises and special papers consulted. Lecture, Tu., at 1; Laboratory, M., Tu., W., 1 to 4. Associate Professor Landacre.
22. **Cytology.** Three or five credit hours. Three terms. Advanced course. Must be preceded by Course 1 and equivalent or 2 or 15, 16, 17. Hertwig, Cell and Tissues; and Wilson, The Cell in Development and Inheritance. Professor Osborn.
23. **Entomology.** Three or five credit hours. Three terms. Must be preceded by Course 1. Advanced practical course for those wishing to investigate some special groups of insects or to fit themselves for professional work in Entomology. Lecture, F., at 1; Laboratory or field work, M., Tu., W., Th., F., 2 to 4. Professor Osborn.
24. **Ornithology.** Two credit hours. Three terms. Lecture and laboratory work on Morphology, Ecology and classification of birds. Laboratory, Tu., 9 to 11; Lecture, M., at 10. Associate Professor Hine.
25. **Research Work.** Five or ten credit hours. Advanced undergraduate or graduate course. Must be preceded by Course 1, and the equivalent of 2 or 15, 16, 17 or 19 and 20. Time to be arranged with individual students, or 9 to 12 and 2 to 5 through week. Professor Osborn.
26. **Seminar.** One credit hour. Three terms. Discussion of assigned subjects, reports on research work, current literature, etc. Advanced and graduate students in the department are expected to register in this course. F., at 4. Professor Osborn, Associate Professors Hine and Landacre.
27. **Teachers' Course.** Two or three credit hours. Three terms. In this course, which is intended especially for teachers and those who intend to teach, the work will consist of a presentation of the principles of zoology; a review of typical forms; discussion of the methods of instruction and investigation, and a course in laboratory practice for those who have not had such work. Two lectures, one laboratory period per week. Time to be arranged. Professor Osborn, Associate Professor Landacre.

ENROLLMENT—1904-1905

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

GRADUATE STUDENTS.

Name.	Home Address.
Ollie Wayman, B. Sc., (Agr.)	Steubenville.
Clarence Boal, B. Sc., Agr.	Columbus.

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Henry Babbitt	Agr.	77	Columbus.
Francis Lane	Agr.	91	Van Wert.
Alison	Agr. (S.)	26	Jeffersonville.
Bert	Dairy.	21	Gowanda N. Y.
se, Otto Clarence	Agr. (S.)	102	New Bedford.
ewis Michael	Agr. (S.)	20½	West Unity.
Ethel May	Dom. E. (S.)	.....	Columbus.
Fred Elmo	Agr.	94	North Amherst.
Sam H.	Dairy.	17	Lancaster.
new, Floyd N.	Dairy.	18	Burton.
omas Lee	Dairy.	18	Wilmington.
1, Annie Elizabeth, B. Sc.	in Dom. Econ.	.....	Columbus.
Walter	Agr. (S.)	35	Radnor.
James Herbert, B. Sc. in	H. & F.	.....	Zanesville.
thur C.	Dairy.	.....	Ragersville.
Jessie Hope	Dom. E. (S.)	77½	Deavertown.
rank Carl	Dairy	14	Metz.
Rifford Maxwell	Agr.	33	Grove City.
laymond Merl	Agr.	37	Grove City.
Stanhope Seth	Agr.	27½	Trumbull.
Earl Levi	Agr.	115½	West Unity.
adge	Dom. Econ.	50½	Columbus.
Bernard	Dairy	2	Wilmington.
Chester Ashbea	Dairy	.....	Jersey.
, Whiteside Lawrence ..	Dairy	17	Medina.
orris O., B. Sc. in	Agr.	.....	Kingsville.
yman Edmund	H. & F.	59½	Colerain.
Albert Louis	Agr. (S.)	42½	Bartlett.
and Everett	Agr.	122	Darrowville.
l, Clara Naomi	Dom. Econ	167½	Columbus.
l, Howard J.	Agr.	28	Hendeysburg.
Thad B.	Agr. (S.)	34	Macedonia Depot.
arle Grace	Dom. E. (Spl.)	6	Columbus.
Apha Lee	Dom. Econ.	96	Okeana.
r, William Leander	Agr.	106	Fletcher.
Edward D.	H. & F.	169½	Georgesville.
ra Judson	H. & F.	172	Jersey.
lmer Charles	Agr. (S.)	58½	New Vienna.

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE—Continued.
UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Cook, Isaac S., Jr.	Agr.	82	Chillicothe.
Correa, Gabriel F.	Agr. (S.)	13	Arecibo, Porto Rico.
Crabb, George Arthur	Agr.	108	South Warsaw.
Crabbe, Floi Euphemia	Dom. Econ.	92½	Mt. Sterling.
Crall, Homer Boyd	Agr.	64	Bucyrus.
Davis, Charles M.	Agr. (S.)	40½	Ebensburg, Pa.
Davis, William Joseph	Agr.	52½	Plain City.
Dickerman, Charles Edwin	Agr. (S.)	55	Malleh Creek.
Doneghue, Ray Claude	Agr.	114½	Columbia Station.
Drake, Alonzo	Dairy	64	Bedford.
Ealy, Clarence W.	Agr.	14	Blacklick.
Easton, Perry Arthur	Agr.	148½	Springboro.
Echegaray, Saile	Agr. (S.)	111½	Santiago del Estero Arg. Rep.
Eckman, Otto Leo	Agr.	198	Brookville, Indiana.
Edmonds, James L.	Agr.	49½	Mansfield.
Edwards, Katherine	Dom. E. (Spl.)	27	Columbus.
Evans, William Edgar, Jr.	H. & F.	97	Chillicothe.
Farley, William Simpson	Agr. (S.)	58½	Swanton.
Finney, Elana Elhana	Agr.	171½	Cedarville.
Fippin, Lucy Mary	Dom. Econ.	35½	Columbus.
Florence, Walter Tuttle	Agr.	114½	Plain City.
Foster, Chester Glenn	Agr.	165	London.
Foster, Thomas Butterworth	Agr.	94	Glendale.
Fox, John Gliffin	Agr.	2	Fort Recovery.
Fox, Sophia Weber	Dom. E. (Spl.)	173	Columbus.
Frank, John Nickolas	H. & F.	157½	North Amherst.
Freyre, Alexander	Agr. (S.)	.....	Santa Fe, Arg. Rep.
Fromme, Fred Denton	Agr.	21	Richmond, Indiana.
Fromme, Nola Katharine	Dom. Econ.	136	Richmond, Indiana.
Fromme, Rudo Lorenzo	H. & F.	197	Richmond, Indiana.
Gantz, Merrick Walden	Agr. (S.)	14½	Orient.
Garlough, David Crabill	Agr. (S.)	10	Springfield.
George, Homer Carlton	Agr.	42	Okeana.
Gillespie, Thomas Newton	Agr.	55	Ingram, Penn.
Gourley, Joseph Harvey	H. & F.	52½	Lancaster.
Green, Frank Lester	Agr. (S.)	9½	Sedalia.
Green, Henry Clifford	Agr.	52½	Ashville.
Green, Paul	Agr. (S.)	24	Columbus.
Griffin, Bayliss	Agr. (S.)	75½	Sylvania.
Groves, Walton Ellis	Agr. (S.)	102½	Egypt.
Hackman, Fred R.	Dairy	18	Lebanon.
Hainer, Walter Ray	Agr.	40½	Lexington.
Haines, Arthur	Agr.	.....	Sabina.
Hamilton, Harry Hoge	Agr.	184½	Brownsville.
Hamilton, Paul Ibbotson	Agr.	91½	Brownsville.
Hamilton, Thomas Frederic	Agr. (S.)	60½	Brownsville.
Hammond, James Weston	Agr.	91	Blaine.
Harned, Robey Wentworth	Agr.	109½	Greenville, N. J.
Harry, Scott Garfield	H. & F.	.....	Wooster.
Harvey, George Crocker	Agr.	86½	Richmond, Indiana.
Hatfield, Clifford Christian, B. Sc. (Agr.) ....	.....	.....	Lebanon.
Hayden, Florence Minnette	Dom. E. (S.)	4½	Columbus.

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
er, Fred Elon	Agr.	114	Ravenna.
orn, Frank D.	Agr.	49½	Kenton.
Louis	Agr. (S.)	35	Columbus.
Clarence Wilson	Agr. (S.)	58	Lancaster.
, George Herbert	Agr.	18	Louisville.
Frieda	Dom. Econ.	155	Columbus.
gar David	Agr.	126	New Berlin.
, Ruth Amanda, B. Sc. Econ.) .....	.....	.....	Gallion.
Charles Potter	Agr. (Spl.)	80	Columbus.
Susan Corwin	Dom. E. (Spl.)	140½	Columbus.
Clarence	Dairy	18	Wilmington.
Charles Newton	H. & F.	59	Troy.
True	Agr.	113	New Pittsburg.
i, Simon Peter	Agr.	53	Leipsic.
an, Jacob Casper	H. & F.	45½	Hamilton.
Charles Daniel	Agr.	111	Augusta.
ames Vernon	Agr.	162½	Augusta.
rawford Fulton	Agr.	99	Frankfort.
George Robert	Agr.	56½	Deshler.
Guy Hamilton	Agr. (S.)	100½	Bellefontaine.
Augustin De	Agr. S. (Spl.)	.....	Sante Fe, Arg. Rep.
, Rinjiro	Agr. (S.)	.....	Kamibun, Japan.
Garnett P.	Agr. (S.)	61	Sabina.
Guy Adelbert	Agr.	49½	Macedonia.
Willard Guy	H. & F.	46	Columbus.
James Herman	Agr. (S.)	53½	Union, West Va.
William Robert	Agr.	36	Sidney.
lbert William	H. & F.	32	Cleveland.
John Edwin	Agr. (S.)	70	Marengo.
Charles Stone	Agr.	40	Mogadore.
Earl Franklin	Agr. (S.)	.....	Vanceburg, Ky.
Edmund	H. & F.	52	Yellow Springs.
arry A.	Agr. (S.)	.....	Peninsula.
Erasmus Jones	Agr.	57½	Springfield.
ola R.	Dom. E. (Spl.)	129	Westerville.
Frederick Carl	Agr.	90½	Birmingham.
aurice Ellsworth	Agr. (S.)	109½	London.
dwin Franklin	Agr. (S.)	60½	Archbold.
mmet Irvin	H. & F.	84	Tuscarawas.
Ernest Jefferson	Agr. (S.)	70	Andrews.
over C.	Agr.	55½	Cardington.
Pioquinto	Agr. (S.)	44	Villa Mercedes San Luis, Arg. Rep.
Farcella	Dom. Econ.	58	Cincinnati.
seph Allen	Agr.	112½	Ostrander.
Benedict Wyley	Agr. (S.)	110	North Benton.
Paul	Agr. (S.)	58½	Mt. Gilead.
William A.	Agr.	141½	Kenton.
s, Bessie	Dom. Econ.	115	Sunbury.
Zeno Payne	H. & F.	57½	Plimpton.
Ada Lucy B. Sc., (Dom.) .....	.....	.....	Columbus.
William Thomas	Agr. (S.)	59½	Forest.

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Mills, Fred Pearl	Dairy	18	Marysville.
Milner, Homer	Agr. (S.)	5	Leesburg.
Milroy, John William	Agr. (S.)	51	Huntsville.
Mindling, Charles F	Agr. (S.)	61½	Waterford.
Miner, Charles Lewis	Agr.	91	Clyde.
Minns, Edward Russell	Agr.	192	Lodi.
Morris, Bruce Leroy	Agr. (S.)	48½	Bellbrook.
McBeth, Ira Guy	Agr.	50½	Georgetown.
McClintock, James Earl	Agr.	137	Summerfield.
McKee, James Albert	Agr. (S.)	48	Portsmouth.
McKinley Emma Evans	Dom. Econ.	154½	Columbus.
McNutt, John Chester	Agr. (S.)	.....	North Kingsville.
McOwen, Allen	Agr. (S.)	51	Black Lick.
McOwen, James, Jr. B. Sc. (H. & F.) .....	.....	.....	Ovid.
Nash, Garfield Robert	Agr. (S.)	49½	Marlboro.
Neale, Alvin Scott, B. Sc. (Agr.) .....	.....	.....	Rock.
Nell, Fay	Dom. E. (S.)	66	Columbus.
Netz, Wesley	Dairy	2	Primrose.
Newcomb, Archie	Agr. (S.)	78	Burton.
Oates, William Hiram	Agr. (S.)	.....	Dunkirk.
Oberlin, Mary Lavina	Dom. Econ.	152	Massillon.
Orr, Anna Faye	Dom. Econ.	80½	Brownsville.
Owen, Byron	Dairy	20	Wagram.
Palmer, William Henry	Agr.	161	Thurston.
Petry, Edward Jacob	Agr.	71	Gradenhutten.
Pew, William Harper	Agr.	144½	Youngstown.
Pheneger, Inez Louise	Dom. E. (S.)	6	Columbus.
Phillips, Frederick E.	Agr. (S.)	32	Amesville.
Pinkham, Eva Hayford	Dom. Econ.	52½	Hullington.
Poston, Emerson Scott	Agr.	158	Logan.
Quiroga, Modesto, B. Sc., (Agr.) .....	.....	.....	San Luis, Arg. Rep.
Ramsower, Harry Clifford	Agr.	107½	Granville.
Rardin, Glen E.	Agr.	76½	Portsmouth.
Rehl, William G.	Dairy	21	Zanesville.
Richey, Edgar Casner	Agr.	49½	Senecaville.
Roskelly, Homer	Agr. (S.)	4½	Huron.
Roush, Ted	Agr. (S.)	86½	Russells.
Rubins, Frank, D. B. Sc. (Agr.) .....	.....	.....	Kenton.
Russell, Edwin Humphrey	Dairy	21	Collins Center, N.Y.
Sagar, Reno	Dairy	2	Gahanna.
Sagar, William	Dairy	17	Gahanna.
Sapp, Donna Louise	Dom. Econ.	86½	Columbus.
Schenk, Fred W.	Dairy	2	New Philadelphia.
Schraldt, Lewis Emil	Agr. (S.)	52½	Put-in-Bay.
Seachrist, Jesse H.	Dairy	17	Columbiana.
Shaw, Norman Ewing	H. & F.	103	Nice.
Shawhan, Sylvan Henry	Agr. (S.)	59½	Morrow.
Shepard, Ewart Ralph	Agr. (S.)	79	Perry.
Shilling, Bessie	Dom. Econ.	52½	Columbus.
Sill, Andrew B.	Dairy	.....	Middletown.
Sims, W. D.	Dairy (Spl.)	.....	Worthington.
Skinner, Charles L.	Dairy	18	Pierpont.

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Charles Ira	Dairy	18	Eaton.
Chelsie A.	Agr. (S.)	6	Egypt.
Lindley M.	H. & F.	155½	Chesterhill.
Martin A.	Dairy	17	Lithopolis.
Orma Jacob Burrell	H. & F.	104	Jamestown.
Raymond F.	Agr. (S.)	118	New Carlisle.
Samuel Allen	Agr. (S.)	20	Shanesville.
Miss, David Phillips	Agr.	37	Canonsburg, Pa.
George Tillson	Agr.	105	Monroeville.
Julia Irene	Dom. E. (S.)	44	Monroeville.
Mark, Howard	Dairy	14	Tallmadge.
Alice	Dom. Econ.	163½	Dayton.
Samuel Henry	Agr. (S.)	69	Williamstown.
John, Andrew Dee	Agr.	33	Murphysville, Ky.
John, Margaret	Dom. Econ.	96	Columbus.
Brisben Otto	Agr. (S.)	121½	Coshocton.
Stanley Blaine	Agr.	46½	Highland.
Walter, Roy Harnosh	Agr. (S.)	54	Rex.
Miss, Fannie Augusta, B. Sc. (Econ.) .....	.....	.....	New Carlisle.
John, Clara Margaret, B. Sc. (Econ.) .....	.....	.....	New Bremen.
George Owings	Agr. (S.)	38	Winchester, Ky.
John, Benjamin Lee	Agr.	105	Jersey.
John, Loula Belle	Dom. Econ.	118	Georgetown.
Miss, Opal Ione	Dom. Econ.	183	Greenville.
John, Roy	Agr. (S.)	59	Xenia.
Anderson Arthur	Dairy	18	Wilberforce.
Edward Asa	Agr. (S.)	46½	Alexandria.
John, Etta	Dom. E. (S.)	.....	Columbus.
John, George C.	Agr. (S.)	.....	Bowling Green.
Ray Fisher	Agr. (S.)	43	Sunbury.
Walter, William George	Agr. (S.)	29	Philadelphia, Pa.
Earnest David	Agr.	116½	Wauseon.
John, Robert Clarence Edwin.	Agr.	122½	Wooster.
John, Walter Bruce	Agr.	60	Cambridge.
Vivian	Dom. Econ.	167½	Freeport.
Carl	Agr. (S.)	.....	Bloomville.
John, Clifton C.	Dairy	11	Basil.
Dwight Willson	Agr.	157	Basil.
John, Fred J.	Dairy	.....	Munson.
Ada Clare	Dom. Econ.	53	Columbus.
Burton Louis	Agr.	49½	Marengo.
Frederick Long	Agr.	158½	Bloomingsburg.
John, Robert Sanford	Agr.	46½	Paulding.
John, Thomas Leroy	Agr.	193½	Chillicothe.
James Arza	Agr. (S.)	5	Centerfield.
James Chalmers	Agr.	161	Lebanon.
Thomas P.	Agr.	52½	Hooker.
Garfield James	Agr.	117½	Elyria.
Ellis L.	Dairy	Creston.
Miss, Harry A.	Dairy	17	Gahanna.
Miss, John Oscar	Agr. (S.)	56	Venedocia.

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COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE—Concluded.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Wolcott, Maynard L.	Dairy	18	Lebanon.
Wood, Aubrey	Agr. (S.)	.....	Hepburn.
Wood, Mead	Agr. (S.)	34½	New London.
Woods, Harold Edward	Agr. (S.)	51	Crown Point, Ind.
Wright, Edith Betsey	Dom. E. (S.)	105	New Vienna.
Yeager, William Glade	Agr. (S.)	37½	Sprankle Mills, Pa.
Yingling, Henry Lloyd	Agr. (S.)	38½	Gervais.
Young, Robert Armstrong	H. & F.	83½	Cleveland.
Zehring, Edgar Levi	Agr.	189	Germantown.

COLLEGE OF ARTS.

GRADUATE STUDENTS.

Name.	Home Address.
Andrews, Catherine Emily, M. A.	Columbus.
Ball, Ernestine Faye, B. A.	Columbus.
Barrows, Sarah Tracy, M. L.	Columbus.
Beer James Anderson, B. Sc.	Ashland.
Bohannon, Mary McDonald, A. B., Smith College.	Columbus.
Cummings, May, A. B., Antioch College	Xenia.
Elsenlohr, Berthold August, B. Ph.	Cincinnati.
Gill, Marie, B. Sc., Colorado Agr. College	Fort Collins, Colorado.
Hommon, Harry Britton, B. Ph.	Marble Cliff.
Huntington, Charles Clifford, B. Sc., Antioch College	
B. Ph., M. A.	Yellow Springs.
Miller, Gretchen Pauline, B. Ph.	Columbus.
Molloy, Mary Aloysia, B. Ph.	Sandusky.
Morse, Max Withrow, B. Sc.	Columbus.
Morton, Max De Los, B. Ph.	Ashtabula.
Muiree, Frederic John, B. A.	Youngstown.
Mumma, Marion Wilson, B. Sc.	Dayton.
McBride, James Jacob, B. Ph., Antioch College	Xenia.
Pennock, Gilbert Lee, B. A., Antioch College	Yellow Springs.
Powell, Cornelia Thompson, B. A.	Columbus.
Razor, Samuel Eugene, M. A.	Columbus.
Sanders James Glossbrenner, M. A.	Westerville.
Sayre, Charles Boyd B. A.	Columbus.
Stewart, Clinton George, B. A., Univ. of Mich. ..	Columbus.
Webb, Edward Nathan, B. Sc.	Rome.
Wilkinson John Anderson, B. Sc.	Piqua.
York, Harlan Harvey, B. Sc., DePauw University.	Cartersburg, Indiana.

COLLEGE OF ARTS—Continued.

UNDERGRADUATES.

Name.	Credit Hours.	Home Address.
Anna, Julia	31	Columbus.
ht, Alan Roth	16	Columbus.
ulu May	33	Columbus.
son, Carl Godfrey	41	Columbus.
son, Oren J.	104	Newark.
uster Clarence		Cleveland.
l, Mary Louise, B. A.		Columbus.
Bertha	100	Plain City.
el, John Francis	86	Home City.
d, James Franklin	90	Zanesville.
urger Eugene Richard	125	Lebanon.
Daisy Deane	138	Columbus.
in, Carl M.	29	Columbus.
oft, Katherine W.	89	Columbus.
r, Claude Rex	96	Poast Town.
an, Cleaveland Leon	36	Osborne.
an, Stella Leola	42	Osborne.
ll, Eva A.	31	Columbus.
vs, Edward Morley	78	Columbus.
vs, Frances Weld	42	Columbus.
p, Harry Tyler	33	Perry.
p, John Gordon	35	Perry.
s, George Wesley	113	Columbus.
Fred	89	Peebles.
Mary	153½	Peebles.
Mabel Margaret	90	Columbus.
William A. L.	101	Arlington.
James Harry B. Sc.		Marietta.
Earl Adelbert	142	Mt. Gilead.
ey, Helen Durbin	3	Columbus.
Albert Eli		Woodstock.
, Albert George	45	New Bremen.
, Walter Jacob	45	New Bremen.
m, Frank S.	45	Washington, C. H.
in, Ethel Eugenie	59	Columbus.
m, Archard	22	Columbus.
m, Bruce Armstrong	16	Prairie Depot.
m, Mary	33	Columbus.
in, Carl Gustave	98	Portsmouth.
in, Raymond	80	Columbus.
, H. Clifford	65½	Woodstock.
, Louise		Columbus.
, Hortense	34	Columbus.
, Sarah Rebecca	147	Columbus.
, William Sexton	24	Columbus.
e, Ellen Peterson	21	Columbus.
Mrs. Birdie	138	Columbus.
David Clifton, B. A.		Columbus.
Ethel	68	Columbus.
Ralph William, B. A.		Cardington.
Harold A.	121	Perrysville.
s, Helen Emeline	41	Rockland, Mass.
Sara L., B. A.		Columbus.

COLLEGE OF ARTS—Continued.

UNDERGRADUATES.

Name.	Credit Hours.	Home Address.
Busher, Robert Francis	43	Glenville.
Bussert, Edgar C.	33	Amanda.
Caldwell, Marguerite	48	Columbus.
Campbell, Robert, B. A. ....	.....	Toledo.
Carmack, Caroline, Martha, B. A. ....	.....	Columbus.
Carmack, Gilbert Harry	45	Columbus.
Carpenter Edwin Alfred	27	Columbus.
Chamberlain, Paul Ford	39	Columbus.
Chaney Alta Jane	86	Columbus.
Chapman, Earl	45	Garrettsville.
Clark, David Burns	128	Shandon.
Clark, John T.	130½	Louisville, Ky.
Clark, Margaret Brown	68	Columbus.
Clark, Shreve	84½	Akron.
Clements, Jerry Riley, B. A. ....	.....	Waverly.
Coates, Elmer William, B. A. ....	.....	Pomeroy.
Cobb, William Stiles	58	Warren.
Cockley, William Barney, B. A. ....	.....	Lexington.
Cockins, Frederick Dietz	136	Columbus.
Coddington, Mrs. Edwin F.	8	Columbus.
Collison, Reginald C.	33	Columbus.
Collison, Stanley Edgar	33	Columbus.
Colton, Louise	83	Columbus.
Cooper, Cora Anna	26	Newton, N. J.
Cooper, Joseph Bliss	75	Columbus.
Cooper, John Henry	21	Lockville.
Copp, Joseph Elsworth	32	Twin.
Corn, Mamie Alice	21	Columbus.
Cornell, Fred A.	81½	Columbus.
Cornell, Maybelle	34	Columbus.
Covert, Florence Cecella	99	Columbus.
Cox, Lewis Clark	133½	Xenia.
Crane, Joseph Thompson	87	Columbus.
Crew, Fleming Harold	113	McConnelsville.
Cromer Howard	90	Troy.
Crout, Ray Durand, B. A. ....	.....	Columbus.
Crowley, Frank A.	90	Dayton.
Crowley, Leo Francis	29	Columbus.
Daerr, Louis August	65	Newark.
Dalzell, Mrs. Grace M.	6	Shepard.
Dann, Grace Adele	143	Columbus.
Davis, Franklin Levi, B. A. ....	.....	Columbus.
Davis, Joseph D.	167	Columbus.
Davis, William Edgar, B. A. ....	.....	Columbus.
Deatrick, Laura A.	65	Columbus.
DeCamp, Mary Adelaide	66	DeFuniak Springs, Florida.
Demorest, Ralph H., B. Sc. ....	.....	Marysville.
Dennis, Harlev J.	41	Ashley.
Dick, Edith Veola	54	Columbus.
Dickey, Francis Wilber	134	Clintonville.
Dillin, Ernest Stewart, B. A. ....	.....	Coshocton.
Dowler, Edwin Ernest	125	Washington, C. H.

COLLEGE OF ARTS—Continued.

UNDERGRADUATES.

Name.	Credit Hours.	Home Address.
Myrta Olella	12	Columbus.
Edna Loretto	94	Wellsville.
Ney Agier	69	Hamden Junction.
ace Tourje	18	Columbus.
atharine Belle, B. A. ....	.....	Columbus.
, Ethel	27	Columbus.
Frank C.	78	Columbus.
eanette	42	Columbus.
Lenore Carrel, B. A. ....	.....	Columbus.
n, Amy Boles	8	Columbus.
n, Esther	24	Columbus.
rger, Frank	95	Urbana.
rger, Robert Laurence	19	Urbana.
lie	42	Columbus.
ressa, B. A. ....	.....	Columbus.
ger, Iva	46	Norwalk.
Harry E.	80½	Dayton.
Mrs. Mary E.	94	Columbus.
n, Estella	45	Columbus.
Ethel Adele	60	Columbus.
Henry Irving	2	Evanston.
hann, Ernst Harmenn	183	New Knoxville.
ralph Akin, B. A. ....	.....	Columbus.
, Ada Marian	139	Chillicothe.
, Phoebe Grace	115	Chillicothe.
, William	89	Zanesville.
Charles	17	Columbus.
Adelaide M.	39	Columbus.
twin James	16	St. Marys.
Earl Douglas	129	Columbus.
Frank William, B. A. ....	.....	London.
i	30	Nashville, Tenn.
i, Lee Connel	35	Nashville, Tenn.
Loyd Forrest	41	Waverly.
er, Anthony Wayne	90	Columbus.
Charles Wesley	99	Columbus.
arriet H.	99	Columbus.
elle Wilson, B. A. ....	.....	Columbus.
Ruth	24	Columbus.
Ira Garfield, B. A. ....	.....	Perrysville.
Emilie Cordelia	88	Columbus.
uth Matilda, B. A. ....	.....	Columbus.
ayne Coulter	96	Columbus.
dward L.	69½	Cambridge.
Elizabeth Livonia	42	Raymond.
le, Rush Molland	75	Wapakoneta.
od, Helen Tuttle, B. A. ....	.....	Columbus.
atharine	96	Pomeroy.
Rhea Grace	96	Columbus.
Robert Charles	93	Elyria.
Frank Ross	138½	Wauseon.
Anna M., B. A. ....	.....	Springfield.
sh, Frank	70	Urbana.

COLLEGE OF ARTS—Continued.

UNDERGRADUATES.

Name.	Credit Hours.	Home Address.
Haller, Lyman R.	34	Columbus.
Hallock, Roscoe Scott	47	New Milford.
Hammond, Thomas Guy	48	Wellsville.
Harbarger, Adda	42	Columbus.
Harbarger, Sada Annis	100	Columbus.
Hardy, Caroline C.	83	Columbus.
Hare, Russell Ingman	130½	Marysville.
Hare, Walter B.	35½	Columbus.
Harriman, Whedon Storrs	45	Columbus.
Harrington, Harry Franklin	152	Columbus.
Harrold, Carolyn Lenore	24	Dalton.
Harsh, John Marion	135½	Cleveland.
Harshman, John Burnett, B. A. ....	.....	Alpha.
Hartman, Robert	92	Upper Sandusky.
Hay, Hurshel Buddet .....	.....	Brookville.
Hegelheimer, Louis Joseph	88	Columbus.
Heinisch, Hubert Gustave	33	Portsmouth.
Hengst, James McCleary, B. A. ....	.....	Lancaster.
Henry, Everett Brooke	45	Pleasantville.
Heston, Frank M.	145½	Pataskala.
Highwarden, Ethel Williams	78	Columbus.
Hill, Alva Jay	89	Columbus.
Hinckley, Martha Elizabeth	36	Olena.
Hirst, Edgar Clarkson	67	Yellow Springs.
Hitchcock, Myra Finette	6	Columbus.
Hite, Bertha, B. A. ....	.....	Columbus.
Hite, Katheryne	9	Columbus.
Hitt, Ira Alen	39	Bryan.
Hoberg, Harry Henry	48	New Bremen.
Hoffhine, John, B. A. ....	.....	Columbus.
Hoffman, George Thomas, B. A. ....	.....	Malta.
Holloway, Walter A.	46	Columbus.
Holmes, William B Gleason, B. A. ....	.....	Braddock, Pa.
Holt, Mabel Stevens	147	Columbus.
Holtermann, Ernestine	64	Columbus.
Hoover, Ethel May	7	Grove City.
Hopwood, Ruth Potter	93	Kenton.
Horne, Jennie Lind	2	Columbus.
Houston, Grace	42	Columbus.
Houston, Mark Chapeze	141	Urbana.
Hoyer, Ralph Waldo	85	Columbus.
Hummel, Edwin Ray	42	Carroll.
Hunt, Helen Bennett	12	Columbus.
Huntington, Edith	62	Columbus.
Huntington, Hugh	91	Columbus.
Huntington, Katharine Darlington	167	Columbus.
Huston, Ernest T.	16	Dayton.
Hyde, Jesse Earl	90	Lancaster.
Iams, Jesse Dorsey	148	Sheridanville, Pa.
Ingalls, Osmer Charles	142½	Camp Chase.
Jackson, Clifford Webster, B. A. ....	.....	Columbus.
Jackson, Gertrude See, B. A. ....	.....	Columbus.
Jackson, Sara Edith	51	Columbus.

COLLEGE OF ARTS—Continued.

UNDERGRADUATES.

Name.	Credit Hours.	Home Address.
Jennings, Mary Frances	16	Columbus.
Jennings, Otto Emery, B. Sc., (Agr.)	4	Olena.
Jennings, William Silver, B. A. ....	.....	Eaton.
Johnson, Benjamin Monroe	47	Columbus.
Johnson, Wilford W.	2	Green Camp.
Johnston, LeRoy A. ....	.....	Dayton.
Jones, Marjorie McPherson	13	Columbus.
Jones, Martha Margaret	96	Columbus.
Jones, William Clay .....	.....	Kenton.
Jordan, Jeanne Thomas	95	Columbus.
Keating, Edwin Russell	22	Columbus.
Keiser, Forest LeGrand, B. A. ....	.....	Bryan.
Keiser, Jay Gould	90	Bryan.
Kelly, Mary Agnes	96	Mt. Vernon.
Kern, Blanche May, B. A. ....	.....	Columbus.
Kewish, William Henry	39	Painesville.
Kiger, Bruce B.	24	Bluffton, Indiana.
Kindle, Joseph Henry	136	Centerville.
King, Fred Garfield	13	Canton.
King, John Randolph	44	Magnetic Springs.
Kinkade, Walter Moxley	96	Marysville.
Kiplinger, Herman M.	70	Dayton.
Klie, Meta	35	Columbus.
Knox, John Dorsey, B. A. ....	.....	Homeworth.
Kochheiser, Charles C., B. A. ....	.....	Bellville.
Kohn, Harry	99	Columbus.
Kollar, Joseph Blain	87	New Philadelphia.
Krumm, Nettie Belle	64	Columbus.
Krumm, Ruby	39	Columbus.
Laizure, Grant Arlington	90	Dennison.
Lanman, Anne Boughton	94	Columbus.
Lawrence, Mary Elizabeth	102	Columbus.
Lawrence, Wilbert Wight	42	Norwalk.
Laylin, Clarence Dewey, B. A. ....	.....	Norwalk.
Leibold, Irma Sybilla	66	Worthington.
Leonard, Mary Wallis	28	Columbus.
Levitt, Anna Livingston	6	Columbus.
Lewis, Edward Rust	48	Columbus.
Lewis, George Herbert, B. A. ....	.....	Leo.
Lindenber, Robert	6	Columbus.
Lindsey, Helen Brown	31	Middleport.
Lloyd, James Arthur	93	Columbus.
Loechler, Elsa, B. A. ....	.....	Columbus.
Logan, Richard Dougherty	45	Waverly.
Logsdon, Murrell, L. J.	30	Zanesville.
Loomis, Homer Leslie, B. A. ....	.....	Columbus.
Lorbash, David Jr., B. A. ....	.....	Waverly.
Love, Jacob Wainwright	84	Warren.
Lucas, Howard Johnson	50	Columbus.
Lynas, John Campbell	33	Columbus.
MacGregor, Jeannette Porter	50	Grove City.
Mackey, Mary Glessner	18	Cambridge.
Maerker, Grace Elfrida	85	Napoleon.

COLLEGE OF ARTS—Continued.

UNDERGRADUATES.

Name.	Credit Hours.	Home Address.
Mahaffey, Evan Lawrence	45	Columbus.
Malone James Bernard, B. A. ....	.....	South Charleston
Mann Irand Irene	69½	Linden Heights.
Manning Eva Belle	57	Columbus.
Mark, Clara Gould	122½	Milo.
Mark, Robert Matthew, B. A. ....	.....	Milo.
Marsh, Alice Roxanna	90	Columbus.
Martin, Walter Franklin	42	Richwood.
Massey, Herbert N.	88	Malta.
Matthews, Vesta Shockley	2	Columbus.
Mauk, Margaret E.	80	Columbus.
Maurer, Ada Alberta	45	Chillicothe.
Mead, Charles Searing, B. Sc. ....	.....	Columbus.
Means, Hugh Jackson	137	Columbus.
Medbery, Roston, B. A. ....	.....	Columbus.
Meek, Julia	40	Columbus.
Meek, Paul Deady	119	Columbus.
Merion, Mary Elizabeth	48	Columbus.
Metcalf, Florence May	147	Columbus.
Metcalf, Thomas Rees	90	Columbus.
Metz, Walter Charles	160	Newark.
Miller, Orlando C.	34	Columbus.
Mitzenberg, Fannie Katheryn	168½	Columbus.
Moist, Albert Reynolds	32	Kinsey.
Moist, Harvey Clinton	92	Kinsey.
Moody, Ancil Earl	99	Cable.
Morris, Mary Elizabeth	75	Columbus.
Morris, Samuel	140	Bloomingsburg.
Morrison, James Spindler	88	Ashville.
Morrow, Lydia	64	Columbus.
Morse, William Clifford	102	Columbus.
Myers, Herbert Merton	150	West Alexandria.
McAlister, Ruth Regina	18	Columbus.
McAlpine, Maud A., B. A. ....	.....	Columbus.
McCampbell, Eugene Franklin	164½	Marysville.
McCleary, Fred Elmer	81½	Connorville.
McCleary, Edna May	42	Lancaster.
McClelland, Cloys Peter, B. A. ....	.....	Columbus.
McClure, Charles Walter	93	Germanstown.
McClure, Roy Donaldson, B. A. ....	.....	Columbus.
McCullough, Reuben C. ....	.....	Bryan, Texas.
McDaniel E. Herschel	12	Miamisburg.
McDonald, Ethel	72	Columbus.
McDonald, John Jacob	15	Worthington.
McElroy, Enid Cherington	39	Columbus.
McFaddin, John Graham	30	Sardinia.
McKinley, Mary Ann, B. A. ....	.....	Trinway.
McKinney, Mary Eula	96	Columbus.
McPherson, Clarence Githens, B. A. ....	.....	Xenia.
Nailor, Joseph Charles	5	Columbus.
Napper, Charles William	89½	Greenfield.
Neiswender, Clay F.	73	Grove City.
Newman, Magdalene R.	104½	Mechanicsurg.

COLLEGE OF ARTS—Continued.

UNDERGRADUATES.

Name.	Credit Hours.	Home Address.
Marion Louise	142	Chillicothe.
Jay M.	90	Columbus.
Caroline Clemence, B. A. ....	.....	Columbus.
William Augustus	118	Zanesville.
Toy Hedges	101	Ashville.
Sigismund, B. Sc. ....	.....	Ulitza Trgowska Sofia, Bulgaria.
Earl Hill, B. A. ....	.....	New Salem.
Alva Kendall, B. A. ....	.....	Columbus.
Lloyd Gamble	137	Magnetic Springs.
Eth Webb	112½	Columbus.
Jaemie E.	5	Columbus.
Frank Coffman, B. A. ....	.....	Washington, C. H.
Zona Gazelle	51	Columbus.
Bert Mitchell	112¼	Flint.
Frances Gildersleeve	45	Columbus.
Robert Gildersleeve	134	Columbus.
Vernon Frederick	23½	Leesburg.
Lillian	120	Columbus.
Catharine Amos	106	Maple Heights.
Raymond Woodbury	144	Columbus.
J. Arthur	8	Willoughby.
Arthur Joseph	45	Columbus.
Alvah L.	10	Columbus.
Niels, Mortensen	147	Columbus.
Lydia	163	Columbus.
Benjamin Luther	149½	Cananville.
Mary Clara	71	Columbus.
Ann, Paul Washington, B. A. ....	.....	Columbus.
Ignon B.	114	Columbus.
Mara Williamson	134	Columbus.
Catharine May	141	Columbus.
Raymond Thompson	91½	Columbus.
Ina Stuart, B. A. ....	.....	Columbus.
Paul	96	Huntington.
Garet B.	2	Bowling Green.
Eloise	38	Columbus.
Rita, B. A. ....	.....	Columbus.
Nellie Virginia .....	.....	Columbus.
Stanley F.	158	Columbus.
Alph Forrest	81	Columbus.
Line Hollenbeck (Mrs.)	4	Columbus.
Stockton	132	Columbus.
Charles Wells	94	Columbus.
Ila Merion	96	Columbus.
Albert	33	Columbus.
Frances Mary	16	Columbus.
Willie Catharine	6	Columbus.
Robert Murvel	36	Columbus.
Hortense	49	Columbus.
Merle Lowe	6	Columbus.
Charles	38	Newcomerstown.
Cora Ruth	96	Columbus.

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COLLEGE OF ARTS—Continued.

UNDERGRADUATES.

Name.	Credit Hours.	Home Address.
Roberts, Helen Estelle	126	Columbus.
Robinson, Helen Burnett	118	Plain City.
Rockey, Martha	34	Columbus.
Rockey, Noble Warren	124½	Dayton.
Rodebaugh, Mabel Catherine	140½	Columbus.
Roe, Esther Anna	48	Monroeville.
Roller, Bert A.	5	Ashtabula.
Rothwell, James Martin	48	East Palestine.
Rusk, Raymond Edgar	160	Columbus.
Sackett, Florence Margaret	69	Columbus.
Salt, Clifford Green	104	Columbus.
Sands, Edith H.	45	Columbus.
Sapp, Fannie	42	Columbus.
Sapp, Gladys M.	14	Columbus.
Scatterday, Adella Elizabeth	48	Columbus.
Schaaf, Hazel Inskeep	107	Columbus.
Schanfarber, Celia	111	Columbus.
Schneider, Bertha Mabel	30	Columbus.
Schneider, Lydia	4	Columbus.
Schoedinger, Annabel Elizabeth	91	Columbus.
Schoedinger, George Richard	92	Columbus.
Schubert, Floribel Caroline	64	Columbus.
Scofield, Stanley Thompson	134	Ironton.
Sealock, William Elmer	82	McConnelsville.
Sessions, Elizabeth	91	Columbus.
Seymour, Edith Athey, B. A. ....	.....	Columbus.
Shade, Ernest Franklin	36	Bath.
Shaeffer, Raymond	89½	Coshocton.
Sharp, Mary Etta	88	Columbus.
Shawan, Harold Koch	157	Columbus.
Sheets, Beatrice H.	48	Columbus.
Sheets, Nellie Florence, B. A. ....	.....	Columbus.
Shelton, Florence Elnora	82	Columbus.
Sherman, Herbert C., B. A.	24	Columbus.
Sherman, Sarah Ruth	48	Columbus.
Shields, Elizabeth Duncan	33	Columbus.
Shippo, Guy Lanhead	80½	Zanesville.
Shoemaker, Carl David, B. A. ....	.....	Napoleon.
Siebert, May Margaret	42	Columbus.
Skimming, Wilbert Bobb, B. Sc. ....	.....	Wilmington.
Smead, Annie Elizabeth, B. A. ....	.....	Columbus.
Smith, Arthur L.	45	Valley Crossing.
Smith, Daniel Joseph .....	.....	Columbus.
Smith, Fred G.	43	West Unity.
Smith, John Albert	139	Arcanum.
Smith, Ray Fridley	39	Lancaster.
Sniff, Madge Ethel	45	Columbus.
Snyder, Wilbur E.	90	Ironton.
Spahr, Fred Leon	30	Xenia.
Sperr, Frederick William, Jr.	103	Houghton, Mich.
Sperry, Arthur Leon	48	Ashley.
Spitzer, William Adams	37	Portsmouth.
Stahl, Lena Juanita .....	.....	Columbus.
Stahl, Ruth Louisa	22	Canal Winchester.

COLLEGE OF ARTS—Continued.

UNDERGRADUATES.

Name.	Credit Hours.	Home Address.
Homer, F., B. A. ....	.....	Columbus.
Charles J.	94½	Findlay.
as, Jessie Frances	122	Columbus.
, Edna M. ....	.....	Columbus.
Joseph Alfred	162	Columbus.
Catharine Craig ....	.....	Columbus.
r Lois Lenore	147	Columbus.
Dee Daniel	97	Dayton.
, Lorin	30	Bloomingsburg.
, Samuel Nathan	149½	Shelby.
, Frank Macy B. A. ....	.....	Eaton.
Harold H.	38	Middleport.
Frank Crites	66½	New Philadelphia.
Helen	96	Columbus.
Mary Eva	96	Columbus.
, Alice Arnold	93	Columbus.
, John Ralph	118	Columbus.
, Phillips, B. Sc. ....	.....	Columbus.
on, Bessie Agnes, B. A. ....	.....	Columbus.
on, Francis M.	26	Dayton.
on, Lester William	82	Gallipolis.
n, Ada M.	25	Columbus.
Wesley Earle	14	Marysville.
le, Madeline	3	Hilliard.
, Sybil Lucile	55	Columbus.
William Howard	140	Caldwell.
th, Paul Emerson	48.	Alfred, New York.
George Washington	10	Columbus.
, Laura Amelia, B. Ph. ....	.....	Columbus.
Nettie Evelyn	36	Columbus.
an, Joseph Carl	92	Jamestown, Pa.
Charles Elzea	33	Shepard.
Emma Etta	139	Columbus.
ll, Charles	55	Mansfield.
rs. Mary Taylor	14	Columbus.
Helen	38	Columbus.*
, Alma Henrietta, B. A. ....	.....	Columbus.
als, Franklin Clark	45	Columbus.
, Bessie	139	Columbus.
Clara Opal	45	Columbus.
Male	93	Plain City.
Gertrude Margaret	86	Columbus.
k, Herbert Sherwood	33	Waynesville.
rne, George Adrian	60	Columbus.
Walter Owen ....	.....	Harpster.
Mary Isabelle, B. A. ....	.....	North Broadway.
, Homer Hill	22	Cambridge.
, David Cramer	127	Worthington.
, Florence Edna	92	Columbus.
Albert D.	17	Ostrander.
Dwight Elmore	42	Dalton.
r, Mildred	91	Brookfield.
Wendell Edwin	122	Dayton.

COLLEGE OF ARTS—Concluded.

UNDERGRADUATES.

Name.	Credit Hours.	Home Address.
Willcox, Charles C.	96	Columbus.
Williams, Esther Rees	65	Columbus.
Williams, Harold R.	136	Urbana.
Williams, John Clark, B. A. ....	.....	Walnut Grove.
Williamson, Francis Orrin	44	Lancaster.
Williamson, Irene	95	Columbus.
Willis, Roche Carl	143	Columbus.
Wilson, John Tudor	43	Columbus.
Wilson, Mary E.	96	Columbus.
Wing, Margaret Mary	12	Columbus.
Wing, Shirley Townshend	48	Columbus.
Wolf, Mary Hulda	63½	Campbelltown.
Wolfe, Carrie Elizabeth	36	Bainbridge.
Wood, Edward F. ....	.....	Columbus.
Woodbury, Ethel	138	Columbus.
Young, Carl Houseman, B. A. ....	.....	Columbus.
Young, Claude Burnett	126½	West Rushville.
Zartman, Luke V.	84	Columbus.
Zemer, Stanley G.	47	Celina.
Zwerner, Magdalene	38	Columbus.

COLLEGE OF ENGINEERING.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Abbott, Willard Pemberton	Eng.	54	Bethel.
Aleshire, Charles Elmer	C. E.	92½	Jackson.
Alexander, Walter Herbert	Eng.	38	Cincinnati.
Alsdorf, Robert Clyde M. E. ....	.....	.....	Utica.
Altstetter, George Jacob	Eng.	54	Lima.
Anderson, Walter Stewart	C. E.	75½	Mt. Vernon.
Arbogust, George Elwood	Eng.	33	Xenia.
Armstrong, Thomas Hudson, Jr.	M. E.	166½	Bellair.
Armstrong, William Wirt	C. E.	54	Woodsfield.
Arter, James Starr	C. E.	65½	Lisbon.
Asher, Clyde Blaine	C. E.	162½	London.
Aubrey, Arthur James	Cer. (Spl.)	56	Youngstown.
Aylsworth, Warren	C. E.	76½	Canton.
Babbitt, Frank Mitchell	E. E.	85½	Columbus.
Bailey, John Sherman	E. E.	117½	Cleveland.
Bailey, William Jesse	M. E.	98½	Damascus.

COLLEGE OF ENGINEERING—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Donald	Eng.	35	Columbus.
Hugh Jacob	Arch.	173½	Dayton.
Willmer	Eng.	39	Cummins ville.
Clifford C.	Eng.	40	Zanesville.
Fred	Ind. Arts (S.)	46	Grand Rapids.
abrock, Charles Henry	C. E.	174½	New Bremen.
Alfred Henry	Eng.	42	Sandusky.
Earl Robinson	Eng.	52½	Washington, C. H.
Edward James	E. M. (S.)	.....	Carnegie, Pa.
Mahlon E.	C. E.	81½	Upper Sandusky.
Robert Reyburn	E. M.	72	Washington, D. C.
olomew, Harold Criswell ...	E. E.	108	Newark.
Frederick John	E. E.	115	Toledo.
Howard Lindsley, M. E. in E. ....	.....	.....	Glen Ridge, N. J.
Charles Ray	E. E.	96½	West Lafayette.
Benjamin Fell	E. E.	76	Coreopolis, Pa.
Guy Burnette	C. E.	150½	Wheeling, W. Va.
with, Thomas Lyndon	Eng.	16	Columbus.
Walter Doddridge	Eng.	34	Columbus.
Joseph R.	Eng.	17	Canal Winchester.
Thomas	Chem.	161½	Ashland.
Wakeman Clark	C. E.	162½	Dorchester, Mass.
Eric Wilson, M. E. in ..	E. E.	.....	Waterbury, Conn.
Edwin Leroy	E. M.	110½	Bucyrus.
J. S.	Cer. (S.)	.....	Bolivar, Pa.
Samuel	Arch.	106½	Cleveland.
Charles Watson	Cer. (S.)	96	Columbus.
Frank Earnest	E. E.	141½	Greenville.
Howard Lorin	Eng.	42	Palmyra.
Edward Jay	M. E.	116½	Willoughby.
Herbert J.	E. M.	68½	Ashley.
Emanuel M.	C. E.	75½	Cleveland.
Emet Chandler	Eng.	54	Bantam.
Howard	Eng.	26	Pittsburg, Pa.
Elmer S.	E. E.	105½	McComb.
Evan Paul	E. E.	169½	Lebanon.
Perry Evan	Eng.	54	Vandalia.
Carl D.	Eng.	54	Washingtonville.
Herbert Lee, M. E. in ..	E. E.	.....	Ney.
Worley C.	Ind. Arts (S.)	.....	Columbus.
Huber Roth	Eng.	.....	Pittsburg, Pa.
man, Roy Edgar	Eng.	45	Geneva.
Charles	C. E.	106½	Columbus.
beck, Walter B.	C. E.	105½	Danbury.
Volts, Roy	Eng.	66	Columbus.
eman, Benjamin Lonnis....	C. E.	.....	Syracuse.
le, Tracey	C. E.	106½	Ashland.
on, Guy	C. E.	.....	Simons.
on, William Miller	E. E.	41	Columbus.
Benjamin Talbott	Cer.	118	Columbus.
n, George H.	Cer.	98½	Doylestown.
nee, Fred Leslie	E. E.	66½	Columbus.

COLLEGE OF ENGINEERING—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Brunner, Oscar	Eng.	20	Portsmouth.
Bryan, Merrill Logan	Cer. (S.)	102½	Ironton.
Bucher, John Wesley	M. E.	91½	East Liverpool.
Burnell, Ward Kingsley	Eng.	37	Oberlin.
Burnham, Locke Henry	E. E.	170½	Columbus.
Burrell, George A.	Special.	76	Cleveland.
Burrell, Glenn Smith, C. E. ....	.....	.....	New Lexington.
Burroughs, George Earl	E. E.	20	Dundee, Mich.
Calderwood, James P.	Eng.	.....	Middleport.
Caldwell, Boyd Cummings	C. E.	56½	Columbus.
Caldwell, Jay Homer	Cer. (S.)	35	Clinton, Missouri.
Cameron, Gaylor Malcom, M. E. in	E. E.	.....	Jeromeville.
Cameron, Paul St. C.	Eng.	16	Columbus.
Campbell, Frederick Scott	Eng.	31	Joplin, Mo.
Campbell, John Grant	E. E. (Spl.)	192	Dayton.
Carmichael, Robert N.	Cer. (S.)	81	Columbus.
Carpenter, Howard H.	M. E.	121½	Columbus.
Case, Louis Benjamin	Chem.	104½	Mt. Gilead.
Cernik, John, Jr.	Eng.	54	Canton.
Chaffin, Wendel Wilson	C. E.	216	Dayton.
Chambers, William Royal, M. E. ....	.....	.....	Damascus.
Chandler, William H.	Special.	62½	Columbus.
Chaney, Ralph Clarke	C. E.	101	Columbus.
Chatterton, Rollin Mace	M. E.	101½	Troy.
Chubb, Charles St. John, Jr., C. E. in	Arch.	.....	Columbus.
Chubb, Joseph Horace, C. E. ....	.....	.....	Columbus.
Chubb, Lewis Warrington	E. E.	170½	Columbus.
Chubb, Wistar Morris	Eng.	54	Monterey, Cal.
Cieszewski, Joseph	Cer. (S.)	49	Poland.
Clagett, Edward Franklin	Eng.	55	Dayton.
Clark, Granville Hugh	Eng.	2	Moulton.
Clark, Orella Bradford	M. E.	139½	Columbus.
Clark, Thomas Walter, E. M. in	Cer.	.....	Shawnee.
Close, Ralph	Eng.	4	Millersburg.
Cobb, Norval Henry	Ind. Arts.	94½	Warren.
Coe, Elmer Ransom	E. E.	110½	Columbus.
Coe, Harry Dean	C. E.	88½	Columbus.
Cole, John Russell	C. E.	114½	Columbus.
Coleman, Grafton	M. E.	108½	Westfield.
Collins, Lee Sanford	M. E.	59	Huron.
Conover, Ray W.	Eng.	27½	Mason.
Conover, Reeve	Eng.	2	Dayton.
Conrad, Herman William	M. E.	176½	Troy.
Cooke, Elmer Austin	Eng.	50	Clintonville.
Cooper, Charles Proctor	Eng.	54	Caldwell.
Cooper, Sheldon Dill	E. E.	173½	Youngstown.
Corner, Carlisle	Eng.	14	Columbus.
Coulter, Leonard Burnside, E. M. in	Cer.	.....	Oxford.
Court, Wallace Frederick	Eng.	14	Marion.
Cowan, Clyde E.	E. M.	54	Greensburg, Pa.

COLLEGE OF ENGINEERING—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Howard E.	Eng.	49	Austinburg.
Jay Mitchell	Eng.	54	Pravo.
Frank Marion	E. E.	173½	Columbus.
Hirley R.	Eng.	42	Mt. Healthy.
, Harry Dow	E. E.	108½	Columbus.
l, Perry Orson	Eng.	54	Malvern.
Guy A.	E. E.	99	Lima.
Theodore Doane, M. E. in	E. E.	.....	Cleveland.
Thomas Elliott, M. E. ..	.....	.....	Van Wert.
arold Lee	M. E.	104½	Columbus.
e, David Day	Eng.	52	Wellsville.
ham, Robert Henry, Jr. .	M. E.	173½	Columbus.
Michael Francis	C. E.	154½	Corning.
le, Charles Douglas	Eng.	19	Mt. Vernon.
Lucien Charles	Eng.	42	Columbus.
Thomas M.	Eng.	37	Toronto.
William Harman	Eng.	4	Dayton.
aniel Charles	Special.	62	Jackson.
ames Fidelio	Eng.	53	Columbus.
alter Adell	E. E.	100½	Lima.
t, Dana James	Chem.	172½	Marysville.
Clyde Wells	Eng.	32	Barnesville.
lter Page	Eng.	23	Worthington.
William H.	Eng.	53	Columbus.
urat Eugene	Eng.	55	Gutman.
Harry Irvin	E. E.	103	Waynesville.
Arthur Howell	E. E.	87½	Pleasantville.
Kirkwood Harry	Eng.	18	Columbus.
Batrum George	Eng.	54	Columbus.
Ford	Eng.	25	Cleveland.
Walter Alfred, M. E. ....	.....	.....	Newark.
iver Perry, Jr., E. M. ....	.....	.....	Gervais.
, Ralph Hooper	C. E.	103½	Lima.
, Harry R.	Eng.	74	Cincinnati.
Vinton Benjamin	Eng.	39	Sycamore, Ill.
Benjamin Francis	C. E.	.....	Ironton.
Victor Newton	Eng.	54	Ironton.
William Howard	C. E.	94½	McConnelsville.
Roy James	Eng.	12	Grafton.
Edmund Joseph	Ind. Arts (S.)	28	Cleveland.
rthur William	Eng.	56	Akron.
Howard Edward	E. E.	150½	Spring Valley.
William Howard	C. E.	139½	Lakefork.
, Ivan L.	Eng.	4	Columbus.
d, Herbert George	Eng.	16	Toledo.
Clarence F.	C. E.	77½	Perrysburg.
Glenn B.	Eng.	19	Columbus.
laine Justus	C. E.	74½	Shreve.
, Glenn G.	Eng.	21	Columbus.
, J. Howell	Eng.	.....	Columbus.
Homer LeRoy	Eng.	54	Trenton.
Leonard Frederic	Ind. Arts (S.)	30	Columbus.
ames Harry	E. E.	18	Columbus.

COLLEGE OF ENGINEERING—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Embrey, Morrow Lewis	M. E.	113	Richwood.
Enyeart, Charles F.	E. E.	62½	Troy.
Erhard, Earl Chester	M. E.	77	Bastrop, Texas.
Evans, Charles Clayton	Eng.	35	Norwalk.
Ewing, Henry Halliday	Eng.	58	Gallipolis.
Fackt, George P.	Eng.	64	Mascoutah, Ills.
Fankhauser, Elmer Oscar	Ind. Arts (S.)	48	Bellaire.
Farley, Thomas Jay	C. E.	85½	Columbus.
Farquhar, Ivan Alexander	C. E.	87½	Bucyrus.
Farquhar, Leo J.	C. E.	54½	Bucyrus.
Fast, John Edwin	Arch.	106	Columbus.
Fawcett, Clifford J.	Eng.	44	Chester Hill.
Fay, Byron Ayres	M. E.	151½	Columbus.
Feicht, Edward Rall, M. E. ....	.....	.....	Dayton.
Felger, T. Haines	M. E.	116½	New Springfield.
Fenstermaker, Charles Howard ..	C. E.	164½	Basil.
Ferguson, James Warren	M. E.	106	Willoughby.
Fieldner, Arno Charles	Chem.	113½	Ney.
Figlesthaler, E. Walter	M. E.	71½	Chillicothe.
Fish, Carl W.	Special.	30	Milan.
Flower, Arthur Howard	Eng.	54	Akron.
Flowers, Dean Wilcox	E. M.	162½	Columbus.
Foerster, George Bauer	Eng.	18	Columbus.
Forbes, Edward Woodruff	Ger.	52½	Fern Bank.
Forster, Charles Thomas	M. E.	126½	Stryker.
Fortney, Carlton Everett	Eng.	50	Osborn.
Foss, Clarence Milton	M. E.	67½	Carthage.
Foster, William A.	Eng.	9	Thornville.
Fox, Arthur Lowell	M. E.	113½	Dayton.
Frost, Harry Talfourd	Arch.	100½	East Liverpool.
Frye, Alphonso Don	Eng.	15	Newark.
Fuller, Charles William, E. M. ..	.....	.....	West Madison.
Fullerton, Alexander Scott	Eng.	23	Columbus.
Furnas, Joseph Merrill	Eng.	16	Columbus.
Galbreath, Albert Webster	C. E.	105½	Columbus.
Gale, Gustav William	Eng.	54	Springfield.
Gallieher, Chester Perkins	E. E.	85	Delaware.
Gard, Irving	E. M.	108	Columbus.
Gardner, Charles Croxell	E. M.	81½	East Liverpool.
Gault, Paul Max	E. E.	142	North Jackson.
Gay, John Christian	Eng.	52	Youngstown.
Geddes, Donald Young	Eng.	54	Zanesville.
Gehres, Hewitt Ad	M. E.	122	Waverly.
Gerard, Harley J. A.	E. E.	80½	Greenville.
Gerwick, Benjamin Clifford	C. E.	106½	Zanesville.
Gibson, Ollie	Eng.	58	Mingo Junction.
Gibson, Edward I.	Eng.	61½	South Charleston.
Gibson, George Adrian	Eng.	50	Sharon, Pa.
Gibson, John Chester	E. M.	99½	Washington, Pa.
Gifford, Reginald E.	Eng.	21	Lebanon.
Gilbert, Edward James	Eng.	44	Sandusky.
Gillespie, Stanley E.	Eng.	54	Wickliffe.
Gillig, John Thornton	Eng.	55	Decatur, Indiana.

COLLEGE OF ENGINEERING—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Robert Gibson	C. E.	83½	Clinton, W. Va.
Mer Martin	E. E.	114½	Union City, Ind.
Harry Eldon	Cer.	75½	Wellston.
Edmund Morgan	E. E.	147½	Bellaire.
James Leroy	C. E.	91½	Minerva.
William Stewart, M. E.			Wyoming.
Correst	Ind. Arts (S.)	92	Piqua.
John William	Eng.	57	Dayton.
Laymond	Eng.	7	Grove City.
Thur Elder	Special.	70	Newark.
Walker, Arthur F.	Cer. (Spl.)	134	Cleveland.
George Courtright	Eng.	48	Columbus.
Henry W.	Eng.	65	Zanesville.
August	E. E.	80	Camp Chase.
Frederick	E. M.	105	Middletown.
Carl Hawthorne	Cer. (Spl.)	114	Columbus.
Edwin	Ind. Arts (S.)	44	Columbus.
William Thomas	Eng.	16	Garrettsville.
Walter Jordan	Eng.		Columbus.
Charles Alfred	C. E.	162½	New Washington.
Josiah Walker, M. E. in			Wheeling, W. Va.
William Wesley, Jr.	M. E.	206½	Dayton.
Clyde C.	Eng.	43	Painesville.
Harry Irvin	Chem.	70½	Columbus.
Frederic B.	Man. Tr.	67½	Mt. Vernon.
Earle Price	C. E.	152½	Norwood.
Charles Ritchie	M. E.	156½	Columbus.
W.	Eng.	46	Plain City.
Robert Harcourt	C. E.	108½	Columbus.
Bernard S.	Eng.	70	New Bremen.
Clyde Ellsworth	E. E.	158½	Wheeling, W. Va.
Frederick Irving	E. E.	116½	Lodi.
Adolph G.	Eng.	60	Cincinnati.
Robert Lee	C. E.	76½	New Philadelphia.
Paul, E. M.			Columbus.
James Yost, Jr.	Eng.	52	Johnstown, N. Y.
Alfred Lewis	E. E.	179½	Xenia.
Amos Mahon	E. M.	149½	Columbus.
Walker Blasdell	Cer. (S.)	86	Ogden, Utah.
Otis W.	Eng.	54	Perrysville.
Harry Homer	Eng.	63	Cleveland.
Charles S.	Eng.	18	Dayton.
Leonard E.	Eng.	39	Savannah.
Ned Elmer	Eng.	45	Medina.
Carl Henderson	C. E.	150½	Cambridge.
James Kauffman	Eng.	24	Englewood.
Ralph Edwin	E. E.	50½	Warren.
John A.	Eng.		Lorain.
Charles Henry	Eng.	54	Bellevue.
Roy	Eng.	41	Bellevue.
Oscoe Scott	Eng.	36	Wauseon.
Harry	E. M. (S.)	52	Levittsburg.

COLLEGE OF ENGINEERING—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Henney, John Lankford Woolbach	Cer. (S.)	78	Columbus.
Hepner, Charles Rudolph	E. E.	173½	Valley Crossing.
Hepner, Jacob William	E. E.	116½	Valley Crossing.
Herbert, Evan	Eng.	49	Columbus.
Hessenauer, Sidney	Eng.	34	Columbus.
Hibbard, John Hamilton	C. E.	48	Columbus.
Hildreth, Abel Edward	Ind. Arts (S.)	36	Columbus.
Hill, Raymond Ward	Eng.	54	Willoughby.
Hills, Frederick Albert	Eng.	54	Cleveland.
Hinkle, Albert Harrison	Eng.	54	Marion.
Hite, Florence Elizabeth, C. E. in Arch.			
Hobbs, Caleb	E. E.	167½	Columbus.
Hock, John Aloysius	M. E.	99	Barnesville.
Holt, Julian David	Eng.	44	Columbus.
Holl, Alfred Tennyson	C. E.	95½	Cleveland.
Holloway, Thurman Welferd, M. E.			Canton.
Holmes, Carl Gilbert	Cer.	123	Zanesville.
Homan, John Greenleaf Whittier.	E. E. (Spl.)	23	Hillsboro.
Hood, Willard J., M. E.			Canton.
Hope, Harry Leroy	E. E.	173½	Cambridge.
Hopkins, Lloyd Clark	M. E.	165½	Paint.
Hornberger, Willis Ray	Eng.	23	Nelson.
Hoskins, Paul L.	Eng.	46	Doylestown.
Houston, Hugh M. Bole	M. E.	59	Sidney.
Howard, Howard Raymond	E. M.	112½	Struthers.
Howard, Verne Dwight	Eng.	40	Columbus.
Howe, Roy Edwin, E. M.			Columbus.
Howell, Glenn Gordon	Eng.		Lodi.
Hughes, Earle Ocala	C. E.	134½	Columbus.
Hultquist, Victor Jonas	M. E. (Spl.)	123	Hamilton.
Humphrey, Harold Phelps, E. M. in Cer.			Jamestown, N. Y.
Hunter, Dard	Special.		Elkland, Pa.
Hunter, James Williamson, C. E.			Chillicothe.
			Zanesville.
Hurlbut, Charles Clayton	C. E.	98½	Gibsonburg.
Hutchison, Darby Helzel	Eng.	42	Huntington, W. Va.
Hyde, William Walter	Special.	25	Taylor, Texas.
Hyman, Henry	Eng.	54	Mt. Vernon.
Iancu, Joseph	E. E.	169½	Berlad, Roumania.
Ichler, Warren	C. E.	59½	Kenton.
Inskeep, Clair Allen	C. E.	97½	Bellefontaine.
Inskeep, John Downs, Jr.	Eng.	49	Bellefontaine.
Ireland, Guy G.	C. E.	83½	Blanchester.
Izant, Clarence S.	Eng.	54	East Cleveland.
Jackson, Benjamin Anderson	Eng.	54	Columbus.
Jackson, Frank Herbert	Chem.	97½	Brookland, D. C.
Jackson, James Francis	E. M. (S.)	95	Frostburg, Md.
Jacobi, Jacob Albert	C. E.	163½	Greenville.
Jaynes, Gaylord Clark	E. M.	110½	Columbus.
Jeannot, Frederick Cotton	M. E.	180½	Youngstown.
Jimenez, Felipe E.	Eng.	22	Guadalajara, Mex.

COLLEGE OF ENGINEERING—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
James E.	Eng.	38	Carlisle.
Bernaldi Regin	Eng.	2	Green Camp.
Don P.	Ind. Arts (S.)	64	Zanesville.
Clayton M.	E. E.	88½	Jamestown, N. Y.
Granville Reynard	C. E.	195½	Columbus.
Warren Cornelius, M. E. in	E. E.	.....	Beaverdam.
g, Harvey Thomas, (B.	Special.	11	Columbus.
Fred Allen	Eng.	11	Columbus.
z, Lester Sneath	Eng.	43	Toledo.
Ralph F.	Eng.	.....	Columbiana.
n, Willard Hoyt	E. E.	189½	Trimble.
Robert Augustus	Eng.	.....	Columbus.
Charles Henry	Cer.	117½	Cleveland.
g, Charles Franklin, M.	E. E.	.....	Loudonville.
Henry Conklin	Eng.	47	Dayton.
Harley	Eng.	56	Lima.
Arthur David	C. E.	106½	Troy.
Henry Frederick	C. E.	132½	Columbus.
orman James	Eng.	.....	Lorain.
Bartley H.	Eng.	50	Bellaire.
Leroy Webb	Eng.	42	Fremont.
John Wilbert	Eng.	54	Worthington.
rick, James Marston	Eng.	54	Middletown.
Howard Arthur	Eng.	4	Wapakoneta.
John Earl	Eng.	51	Springfield.
Homer King	Eng.	54	Basil.
Frederick J.	Cer. (S.)	93	Los Angeles, Cal.
Valter, M. E.	Special.	22	Columbus.
Abner Richard	Eng.	57	Columbus.
, Clyde	Eng.	54	New Philadelphia.
Carl Lafayette	E. E.	162½	Columbus.
Harry Smith	E. E.	101½	Akron.
Londry L.	Eng.	75	New Bremen.
Walter Paul	Eng.	50	Tippecanoe City.
ck, Albert J., Jr.	Eng.	21	Cleveland.
Albert Franklin	Eng.	59	Cleveland.
Ernest R.	C. E.	90½	Akron.
Carl Max	M. E.	134½	Baltimore, Md.
l, Oscar	M. E.	180	New Bremen.
Frank	Eng.	14	Columbus.
Lewis Joseph	C. E.	162½	Richwood.
t, John M.	M. E.	202	Xenia.
l, Eugene Everett	E. M.	181½	Plain City.
Rollo Ellsworth	Eng.	54	Fostoria.
Ernest Garfield	M. E.	98½	Columbus.
re, William Earl	E. E.	79½	Roseville.
ena, Mignel John	E. E.	137½	Parana, Arg. Rep.
, John F.	E. M. (S.)	90	Fairmont, W. Va.
David	M. E.	167½	Norwalk.
l, Frank Edmund	Cer.	136½	Youngstown.
, Harry Glenn	E. E.	44	Columbus.
uls Robert	E. E.	154½	Kirtland.

COLLEGE OF ENGINEERING—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Leeper, Ralph Wood	Eng.	54	Marysville.
Leibold, Carl Peter, M. E. in	E. E.	.....	Columbus.
Leibovitch, Joseph	E. M. (S.)	40	Newark, N. J.
Leonard, Benjamin Miller	Eng.	54	Urbana.
Lethly, Marlay White	Eng.	2	Saint Paris.
Lewis, Charles G.	M. E.	120½	Akron.
Lewis, John Ernest	Eng.	70	Jamestown, N. Y.
Lincoln, James Finney	E. E.	87½	Painesville.
Lindenberg, Leo	E. E.	85	Columbus.
Lindsey, Hugh Kennedy	C. E.	36½	Middleport.
Lingler, Martin John	Eng.	39	Hamilton.
Linhardt, Harvey W.	Eng.	60	Cincinnati.
Linville, Roy Emerson	Eng.	26	Urbana.
Little, Arthur Workman	Special.	14	Springfield.
Little, John Howard	E. E.	148½	Delaware.
Lockwood, Reeme Witherby	Ind. Arts (S.)	78	Franklin.
Lockwood, Rex Barnum	Eng.	35	Cleveland.
Loechler, Herman F.	M. E.	88	Columbus.
Lohr, McEldin	Eng.	8	London.
Long, Clyde Elliott	Eng.	51	Dayton.
Lott, Cloyd P.	Eng.	24	Columbus.
Love, Andrew Jacob	Eng.	33	McClure.
Lucas, Harry Nye	E. E.	113½	Washington, C. H.
Lybarger, Robert Beryl	Ind. Arts (S.)	34	Danville.
MacKinlay, Arthur Ralph	Eng.	63	St. Louis, Mo.
Maetzel, Paul Walter	Arch.	99½	Columbus.
Magrew, Ben Archie	Eng.	54	Columbus.
Maguire, Jesse James	Eng.	2	Monson, Mass.
Mahanna, George	Eng.	34	Columbus.
Malloy, Walter	Eng.	16½	Columbus.
Malm, Arthur Theodore	Eng.	54	Worcester, Mass.
Marker, James Reed, C. E. ....	.....	.....	Versailles.
Markeson, John Milton	Eng.	34	Columbus.
Marshall, John Elbert	Eng.	37	Clifton.
Marshall, Robert	M. E.	60½	Flint.
Martin, Maurice Ewing	Eng.	15	Mansfield.
Martin, Ray Morton, M. E. ....	.....	.....	Richwood.
Martin, Theodore Ray	Ind. Arts (S.)	46	McLuney.
Masjoan, Juan	E. E.	112	Parana, Arg. Rep.
Matthews, William Mills	Eng.	34	Dayton.
Mauchly, Sebastian Jacob	Eng.	63	Swanton.
Maurer, Oscar Valentine	E. E.	93½	Fostoria.
May Adolph Darlington	Eng.	42	Reynoldsburg.
Mayers, Thomas Jay	Eng.	14	Boardman.
Mecusker Grey Edwin	Cer. (S.)	56	Falconer, N. Y.
Melklejohn, Robert, M. E. ....	.....	.....	Columbus.
Mellinger, Aubrey H.	E. E.	175½	Arcanum.
Menough, Paul Simpson	M. E.	76½	Wellsville.
Merrell, Bewley Edward	Eng.	49	Hartwell.
Merrell, William Stanley	E. E.	118½	Hartwell.
Merrill, Ferrand Seymour	C. E.	162½	Cincinnati.
Merrill, Ralph Ozias	E. E.	129½	Al.
Metz, Ora Franklin	E. E.	175½	Norwood.

COLLEGE OF ENGINEERING—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Carl D.	E. E.	98½	Columbus.
Charles Addison	C. E.	142½	Mt. Vernon.
Eugene Alpheus	M. E.	165½	Akron.
Grant Gifford	Eng.	2	North Madison.
James Richardson	Eng.	18	Cleveland.
Morgan Calthness	Eng.	54	Worthington.
Raymond Howard	E. E.	122½	Lodi.
Roy Himes, E. M. in	Cer.	.....	Covington.
James Blaine, Jr.	Eng.	13	Orrville.
mery, Earle T.	Eng.	49	Columbus.
mery, John Rees	C. E.	75½	Columbus.
, Frederick Arthur	Eng.	48	Dayton.
Ernest Ellsworth	Eng.	56	Moorefield.
Harry C.	Eng.	66	Chardon.
Paul Campbell	E. E.	160	Hamilton.
, Guy John	Eng.	54	Youngstown.
, Ralph Cochran	E. M.	38	Cadiz.
, Charles H.	C. E.	74½	Fostoria.
Carl M.	Eng.	.....	Columbus.
, Rush B.	Eng.	54	Bryan.
George Horace	E. M.	104½	Huron.
, Fred Ford	Eng.	6	Centerburg.
Elmer Thomas	Eng.	50	Quaker City.
, Wilbur Eugene	Eng.	54	Columbus.
l, Donald A.	Eng.	51	Ironton.
William George	Eng.	49	New Lexington.
h, Walter H.	Ind. Arts (S.)	41	Elyria.
stie, Minor Everet	Eng.	54	Camden.
b, Hoyt Sherman, E. M. ....	.....	.....	Columbus.
le, Clayton Jerub	Arch.	136½	Warren.
William Nelson	Cer.	72½	Roseville.
ld, Andrew Clifford	Eng.	57	Richmond.
ld, James Estill	Eng.	54	Columbus.
ian, Paullin	Chem.	68½	Selma.
en, John H.	Eng.	54	Sabina.
y, Leo Sylvester, M. E. in ..	E. E.	.....	Junction City.
ray, Donald	Eng.	10	McArthur.
b, Frank	Ind. Arts (S.)	41	Columbus.
ed, Robert Ernest	Ind. Arts (S.)	.....	Shreveport, La.
er, G. C.	Special.	11	.....
, Arthur Tappan, Jr.	E. E.	125½	Greenfield.
er, Carlos Lenox	C. E.	162½	Columbus.
er, Harry W.	Eng.	.....	Middleport.
n, Harry	Cer. (S.)	90	Macomb, Ills.
in, Roy	E. E.	116½	Columbus.
Fred Burgess	C. E.	193½	Olmsted.
Charles Edward, B. Sc .....	.....	.....	Columbus.
Frederick Cookman	Chem.	.....	Columbus.
Frederick B.	E. E.	192½	Columblana.
Harry Ellsworth	E. M.	162½	Akron.
George Bertrand	Eng.	54	Columbus.
	Special.	140	

COLLEGE OF ENGINEERING—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Nothstine, Arthur Clarence, Jr. .	Eng.	54	Circleville.
Ogden, Lester	Eng.	2	Columbus.
Ogle, Alexander Jackson	C. E.	66	Ottawa.
Ohmart, George Lowman	Eng.	55	Dayton.
Oldham, Edwin Aubrey	Eng.	41	Youngstown.
Ollom, Benjamin H.	Eng.	53	Racine.
Oman, Guy Samuel	E. E.	93½	Ashville.
Osborne, Robert Earl	E. M. (S.)	29	Columbus.
Ossing, Percival F.	Eng.	18	Columbus.
O'Toole, Stephen	E. M. (S.)	47	Shawnee.
Otterman, Jesse Lee	Eng.	53½	Layton, Pa.
Park, Charles Abraham	Eng.	56	New Lexington.
Parr, Marion Jay	Eng.	54	Wilson Mills.
Parsons, Charles Harvey	Eng.	48	Rootstown.
Pathe, Paul A., Jr.	Eng.	4	Bethel.
Patterson, Robert	M. E. (Spl.)	15	Akron.
Patton, Harry R.	Eng.	54	Utica.
Paul, Frank D.	Eng.	45	Akron.
Payne, Louis Terry	E. M. (S.)	28	Columbus.
Peirce, Roy Wallace	Eng.	.....	London.
Pelton, Forest Betrum, M. E. in	E. E.	.....	Chagrin Falls.
Pence, Paul Woodbury	Eng.	54	Urbana.
Peters, Herbert Zebulon	Special.	98	Lancaster.
Pettitt, Harry Samuel	E. M.	120	Youngstown.
Pfefferle, Benjamin	Eng.	37	Sidney.
Pfueger, Edwin Bernard	C. E.	163½	Columbus.
Phelps, Paul	Ind. Arts (S.)	14	Columbus.
Pidgeon, Clifford H.	Eng.	.....	Goshen.
Piper, Arthur	Eng.	63	Coshocton.
Pitzer, Nate Gilliland	Cer. (S.)	52	Cherryville, Kan.
Plocher, Karl William	Eng.	35	Elyria.
Plumer, Richard	Eng.	24	Columbus.
Pocock, Paul Curtis	M. E.	105½	Iberia.
Porter, Walter Stowe	Cer. (S.)	109½	Frankfort.
Porterfield, John Calvin	E. M.	112½	Columbus.
Portillo, Manuel Lopez	C. E.	74	San Lins Potosi, Mexico.
Potter, Carl Vernon	Eng.	32	Wapakoneta.
Powell, Ivan Elno, B. A., M. E. in	E. E.	.....	Alliance.
Powell, Warren Thompson	Eng.	34	Columbus.
Powers, Charles A.	Eng.	2	Genoa.
Powers, Frank Irwin	Eng.	.....	Carnegie, Pa.
Prendergast, James	E. M.	83½	Columbus.
Prince, George Wallace	Special.	95½	Pierpont.
Probst, Carl Knight	M. E.	95	Columbus.
Probst, John Frederick	Eng.	43	Columbus.
Pruner, Harry P.	M. E.	84½	Brookville.
Pryor, Willis Scofield	Eng.	12	Barberton.
Purdy, Ross C.	Cer. (Spl.)	187	Buffalo, N. Y.
Putnam, David R.	Eng.	49	Columbus.
Ramsey, Ernest Cope	M. E.	105½	Columbus.
Randall, James Edward	Cer. (S.)	60	Indianapolis, Ind.
Rannells, Edmund B.	Eng.	33	Troy.

COLLEGE OF ENGINEERING—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Arthur William	E. E.	99½	Cleveland.
Robert Bright	Eng.	49	Xenia.
Eds, Edwin Williams	Cer. (S.)	85	Columbus.
Howard Burns	Cer. (S.)	74½	Circleville.
Charles Caleb	M. E.	116½	Hamilton.
Eds, Henry Lee	Eng.	4	Columbus.
Eds, Charles Matthew	Eng.	30½	Columbus.
Antonio, M. E. in E. E. ....	.....	.....	Porto Rico, San Juan.
Ray Howard, C. E. ....	.....	.....	Portsmouth, Va.
Eds, Arthur Rosser	C. E.	46	Alliance.
Ed, Everett Bernon	E. E.	142½	Columbus.
Eds, William Corwin	E. E.	156½	Dayton.
Eds, John Scott, M. E. in E. E. ....	.....	.....	Barnesville.
Ed, Fred Earl	Eng.	55	Columbus.
Ed, Carl	M. E.	173½	Wapakoneta.
Eds, Charles William	M. E.	133½	Dayton.
Edn, Walter Frank	Ind. Arts (S.)	39	Sandusky.
Eds, Marcus Garfield	Chem.	151½	West Mentor.
Edn, James Lee	Eng.	45	Conesville.
Edn, Louis Gilmore, Jr.	M. E.	180	Cincinnati.
Edn, Richard Walton	C. E.	144½	Whetstone.
Ed, Cyrus Kimble	E. M.	109½	Bainbridge.
Willard Leroy	C. E.	88½	Mendon.
Claude Custer	M. E.	173½	Duval.
George Schuyler	Eng.	35	Buenos Ayres, S.A.
Ed, Edward Donald, M. E. ....	.....	.....	Houston.
Edt, Otto Conrad	Eng.	41	Van Wert.
Cecil Bertram	C. E.	102½	Mt. Vernon.
Eds, Jared Irvin	E. E.	103½	Columbiana.
Edt, Edward Chester	C. E.	117½	Columbus.
Edn, John A.	Eng.	43	Crown Point, Ind.
Eds, Luke Francis	C. E.	58	McKeesport, Pa.
Eds, Charalambos G.	Eng.	65	Nighde, Turkey.
Ed, Delbert Bancroft	E. M.	198	Marits.
Ed, Downs	E. M.	162½	Columbus.
Edz, William Arthur, M. E. in ..	E. E.	.....	Hamilton.
Edler, Bruno	Special.	125	Wellston.
Edng, Julius Henry	C. E.	91½	Columbus.
Ednger, George	Eng.	47	Bucyrus.
Ednger, George Fenele	Eng.	113	Xenia.
Edberger, Boyd	Eng.	58	Gallion.
Ederer, Charles	Eng.	42	Elyria.
Edh, Robert Charles, Jr.	E. M.	87½	Columbus.
Edrer, Howard French	Eng.	54	Columbus.
Edp, Peter	E. E.	147	Fostoria.
Edndt, Bernard John	Eng.	52	Greenspring.
Edn, Alva Wharton	Eng.	33	Troy.
Edn, Walter Vance	Eng.	11	West Liberty.
Edght, Huber Anderson	Special.	34	Blaine.
Edt, Archibald Bamber	Eng.	2	Cuyahoga Falls.
Ed, Miles	Eng.	52	Cleveland.
Ed, Andrew Wilson	Ind. Arts (S.)	84	Marshall.

COLLEGE OF ENGINEERING—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Sellers, Russell M.	Ind. Arts (S.)	99	Marshall.
Severcool, George L.	Eng.	10	Elyria.
Shapter, George Hoadley	E. E.	173½	Columbus.
Shaw, Joseph Bradfield	Eng.	48	West Lafayette.
Shaw, Lucian, C. E. ....	.....	.....	West Lafayette.
Shawan Robert Foster	Eng.	48	Columbus.
Shepardson, John Ernest	Ind. Arts (S.)	90	Granville.
Sherburne, Gardner	Eng.	54	Pittsfield.
Sherman, Sylvester Morrill, Jr. ..	C. E.	83½	Columbus.
Shew Walter Edgar	Ind. Arts (S.)	80	Dayton.
Shewalter John Leonard	Eng.	63	Springfield.
Shinkle, Lee Hale	E. E.	79½	Higginsport.
Shoemaker, Clifford	C. E.	147	Grogan.
Shrock, John Huber	M. E.	108½	Newark.
Silfa, Belisario	Ind. Arts (S.)	50	San Pedro de Mar-
			coris, Santa Dom.
Sill, Edgar Townsend, M. E. in...	E. E.	.....	Fostoria.
Simon, Trevor Burchfield	E. M.	93½	Cross Forks, Pa.
Sinclair, John James	Ind. Arts (S.)	34	Columbus.
Singleton, Fred, M. E. ....	.....	.....	Columbus.
Sinks, Walter H.	C. E.	61½	Brookville.
Slack, William Garfield	Eng.	50	Green Camp.
Slee, Norman Sylvester	M. E.	116½	Barberton.
Sloan, Norton Quincey	Eng.	60	Dayton.
Sloan, Thomas Walter	Eng.	4	Marion.
Small, James Bentley	E. M.	173½	Columbus.
Smith, Archie W.	C. E.	203½	Martin's Ferry.
Smith, Carl Joseph	M. E.	173½	North Broadway.
Smith, Charles Sydney	Eng.	.....	Lorain.
Smith, Frank Elston	Ind. Arts (S.)	51	Bellevue.
Smith, Howard Dwight	Eng.	54	Dayton.
Smith, Hubert Paul	M. E.	142½	Pittsburg, Pa.
Smith, Roy Brooke, M. E. ....	.....	.....	Columbus.
Smith, Walter	Eng.	48	Batavia.
Smith, Wendell Richmond	Eng.	29½	Factoryville, Pa.
Snow, Franklin Chadwick	C. E.	106½	Elyria.
Snyder, Clark Winslow	Eng.	18	Cuttingsville.
Soler, Ysidro Brunet	C. E.	111½	Pinar del Rio, Cuba
South, Dale Roland	Eng.	54	Bethel.
Southward, Glenn B.	Eng.	63	Columbus.
Speddy, William Black	Special.	.....	Cleveland.
Speer, Carl Hall	M. E.	165	Hamilton.
Spencer, Walter Edward	Ind. Arts (S.)	.....	Dayton.
Sperry, Walter Asa	Chem.	110½	Columbus.
Spitler, Grovey Otterbein, B. Sc.			
in	Chem.	.....	Van Buren.
Staley, Judson James	Eng.	57	Dayton.
Stallings, Resco	E. M. (S.)	30	Cumberland, Md.
Stanton Frederic Moses, B. Sc in	Chem.	.....	Ridgeville.
Starr Walter Thomas	Eng.	47	Mt. Vernon.
Steinem, Edgar	Eng.	41	Toledo.
Stephenson, Heber Hiram	Cer.	96½	Jackson.
Stewart, Alton LeRoy, M. E. in..	E. E.	.....	Findlay.

COLLEGE OF ENGINEERING—Continued.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Stewart, John Gilbert	E. E.	116½	Belle Center.
Stewart, Walter Straight	E. M.	167½	Mannington, W. Va
Stickle, Judson Kilpatrick	Eng.	42	Hamburg, N. J.
Stokely, Ray	E. E.	173½	Roseville.
Strader, Joseph Edward	Eng.	20	Columbus.
Strait, Ralph Howard	E. M.	73½	Zanesville.
Strandburg, Charles J.	Eng.	48	Jamestown, N. Y.
Straub, Albert A.	E. E.	105½	Ironton.
Strom, Lewis H.	C. E.	132½	Hillsboro, N. D.
Sullivan, Frederick William	C. E.	80	Middletown.
Surface, Henry Earl	Chem.	96½	West Liberty.
Swan, Earl G.	Ind. Arts (S.)	82	Lima.
Swan, Otis Alton	Eng.	21	East Liverpool.
Taggart, John Montgomery	C. E.	97	Donnelsville.
Tanner, John Raymond	Eng.	37	Zanesville.
Taylor, Carl Rutherford	Special.	44½	New Baltimore.
Taylor, George Howard	M. E.	63½	Columbus.
Taylor, Vance Elmer	Cer.	45	Urbana.
Taylor, William Oliver, M. E. in	E. E.	.....	Urbana.
Tenney, Edward Henry	M. E.	166½	Oberlin.
Theobald, Adol Otto	E. M.	66	Columbus.
Thomas, Edward, B. Sc. in	Chem.	.....	Navarre.
Thomas, George Brinton	Eng.	57	Youngstown.
Thomas, John	Eng.	36	Akron.
Thomas, John Fred	Eng.	47	Sharon, Pa.
Thomas, Ralph	C. E.	95½	New Madison.
Thomson, Charles Sarmiento ..	E. M. (S.)	35	Delaware.
Tilman, John Henry	M. E.	126½	Columbus.
Tinney Webb G.	C. E.	32	Fostoria.
Todd, John P.	Cer. (S.)	.....	Indianapolis, Ind.
Todd, Percy F.	M. E.	116½	Piqua.
Torner, James Victor Hugo ...	Eng.	6	Newport.
Trenwith, Ernest	Special.	.....	Mt. Vernon.
Tresselt, Oswald Herman	E. E.	116½	Columbus.
Tucker Harry Wallace	Ind. Arts (S.)	86	Shelby.
Tudor, Glenn E.	C. E.	83½	Chicago.
Tyrell, George F.	Eng.	.....	Lorain.
Van Hyning, Earl	Eng.	36½	Akron.
Vennum, George Carl	M. E.	163	Martin's Ferry.
Vogelsang, Jay Frederick	Eng.	54	Canton.
Waddell, Benson Foraker	M. E.	58½	Columbus.
Wadsworth, Lewis G.	Ind. Arts (S.)	31	Toledo.
Wagner, Arthur Julius	C. E.	105½	Hartwell.
Wagner, Edwin S.	Eng.	12	Hartwell.
Waight, Armstead Taylor	Eng.	44	Mt. Vernon.
Walcott, Edgar Rufus	E. M. (S.)	25	Haverhill, Mass.
Walker, Charles E., Jr.	Eng.	29	Hartwell.
Walker, Charles Parsons	Cer. (S.)	25	Maywood, Ills.
Walker, Downie R.	M. E.	170	Hartwell.
Wallace, Arthur W.	Eng.	.....	Macedonia Depot.
Wallace, Norman Grant	Ind. Arts (S.)	64	Hartwell.
Walthour, Frederick Dale	M. E.	107½	Painesville.
Waltman, Lester	Eng.	54	Brookville.

COLLEGE OF ENGINEERING—Concluded.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Ward, Kenneth B.	C. E.	177½	Painesville.
Ward, Samuel Edwin, M. E.	Eng.	54	Green Spring.
Wasson, William	E. E.	108	Bloomdale.
Watson, Edgar Neil	E. M.	109½	Lenox.
Watson, William Gerard	E. M.	124½	Warren.
Watt, Earl Blakemore	Eng.	52	Barnesville.
Watt, John Rutherford	Eng.	52	Greenfield.
Watters, Burr Sells, M. E.	E. M.	150	Columbus.
Way, Karl Martin	M. E.	166	Youngstown.
Weaver, George H.	Eng.	.....	St. Louisville.
Weaver, Roy Edson	M. E.	208½	Columbiana.
Weinland, Hermon Goodwin	Arch. (Spl.)	192½	Springfield.
Welch, Woodson Payne	Chem.	104½	Frankfort, Ky.
Weller, Orville Axline	Eng.	49	Newark.
Welling, Franklin P.	Cer. (S.)	139	Worthington.
Wells, Harry B.	C. E.	69½	Columbus.
Wells, Paul Morley	E. E.	61½	Toledo.
Wells, Wayne B.	Ind. Arts. (S.)	132½	Wellsville.
Welty, Albert B.	Ind. Arts. (S.)	.....	Bluffton.
Welty, Jacob C.	Ind. Arts. (S.)	52	Columbus.
West, Lewis C.	Ind. Arts. (S.)	16	Osnaburg.
White, Jay Crawford	Eng.	9	New Castle, Pa.
Whitmer, Clyde P.	Eng.	54	Pleasant Hill.
Whitmer, John David	Eng.	22	Covington.
Whitmer, John Harry	Ind. Arts. (S.)	5	Pleasant Hill.
Wildermuth, Orland B.	Ind. Arts. (S.)	42	Baltimore.
Wiley, Leslie	M. E.	123½	Frankfort.
Wilford, Harold Albert	Eng.	20	Jefferson.
Wilhelm, Carl Newton	C. E.	103½	Marietta.
Wilkinson, Alan Dean	M. E.	164½	Columbus.
Wilkinson, Clarence Moody	Eng.	52	Columbus.
Wilkinson, Fred Clyde	M. E.	177½	Belmont.
Williams, Ernest D.	E. E.	101½	Martin's Ferry.
Williams, Emrys Treharn	E. E.	114½	Akron.
Williams, Ralph DeWitt	E. E.	176½	Ashland.
Williams, Samuel Byron, Jr.	Eng.	43	Dayton.
Williams, William Stephen	E. E.	90	Lebanon.
Williamson, Arba G.	Eng.	21	Cuyahoga Falls.
Williamson, Ralph Leslie	Eng.	63	Columbus.
Willis, Charles Cheney	E. E.	144½	Hoosick Falls, N.Y.
Wilson, Joseph Henry	Ind. Arts. (S.)	8	Steubenville.
Wilson, Robert Poe	E. E.	173½	Butler, Pa.
Wingard, Todd Albert	C. E.	90	Columbus.
Wise, James Garfield	M. E.	167½	New Berlin.
Wolfe, Arthur Clifton	Eng.	50	Mt. Vernon.
Wounell, Kent W.	Eng.	40	Port Clinton.
Woods, Walter Adelbert	E. E.	186½	Garrettsville.
Work, William Roth	M. E.	177½	Springfield.
Wylie, Arthur Raymond	Eng.	44	Reynoldsburg.
Yarick, Earl H.	E. E.	81½	Berlin Heights.
Yeagle, William Austin	Eng.	54	Clyde.
Young, Charles Newton	E. M.	118½	Columbus.
Zeller, Howard P.	E. M.	118½	Findlay.

OHIO STATE UNIVERSITY.

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COLLEGE OF LAW.

GRADUATE STUDENTS.

Name.	Home Address.
Amos, Frank Craig, LL. B.	Sidney.
Jones, Hanby Raymond, LL. B.	Westerville.
Turner, Edward C., LL. B.	Columbus.

COLLEGE OF LAW.

UNDERGRADUATES.

Name.	Year	Home Address.
Acker, George E.	First	Seville.
Aldrich, Wesley Richard	Third	Columbus.
Anderson, Dwight S.	First	Cleveland.
Armbruster, Clarence	Third	Cleveland.
Armbruster, Edward B.	Second	Columbus.
Armstrong, Cecil	First	Jerusalem.
Bacome, Marion W.	Second	Norwalk.
Baker, Harry Daniel	Third	Newark.
Baker, John Calvin	First	Somerville.
Ballard, Henry S.	Third	Columbus.
Bates, Carl H.	Third	Nelsonville.
Bellows, George W.	First	Columbus.
Benton, Burt P.	Second	Delaware.
Bigger, Matthew Leon, B. Sc....	Second	Columbus.
Birnie, James H.	First	Marietta.
Blair, William Ariel, B. Sc.	Third	Hillsboro.
Boesel, Otto J.	First	New Bremen.
Bonnet, Alvin Cook	Second	Columbus.
Booth, George H.	First	Columbus.
Borrer, Louis E.	First	Columbus.
Bowe, Warren W.	First	Bradner.
Brinkerhoff, Josiah	First	Utica.
Buhrer, Albert M.	Third	Archbold.
Byrne, Edward G.	Third	Dayton.
Carpenter, Frank Simpson	First	Carpenter.
Cheek, Ross W.	First	Columbus.
Choate, Robert R.	Second	Columbus.
Connell, Thomas F.	First	Columbus.
Corkery, Thomas Jefferson, Jr....	Third	Toledo.
Cornell, Fred A.	First	Columbus.
Culbertson, Hugh E.	Second	Milan.
Daganhardt, John Vinton	Second	Piqua.
Darby, Clarence Leroy	First	Columbus.
Davis, Thomas Charles	Second	East Greenville.
Day, Ralph W.	Second	Columbus.
Delay, Frank	Second	Jackson.

COLLEGE OF LAW—Continued.

UNDERGRADUATES.

Name.	Year	Home Address.
Dickinson, Ralph Vivian	First	Columbus.
Dinsmore, Chester LeRoy, B. Ph.	First	New Athens.
Dowler Edwin E.	First	Washington, C. H.
Downing, John Leedam	Second	Toledo.
Druggan, Charles S.	Second	Jacksonville.
Durand, Charles Homer	Third	Toledo.
Durbin, Floyd Elmer	First	Hamilton.
Eagleson, Freeman T.	Second	Cambridge.
Eagleson, John Hervey	Third	Columbus.
Eggert, Algernon C.	Third	Massillon.
Elder, Walter Newell	Second	Selma.
Everett, Emmett	Second	Beaver Dam.
Finke, Emil H.	First	New Bremen.
Foster, Ralph Akin	First	Columbus.
Fouts, John Cecil	First	West Lafayette.
Frankham, Charles R., B. A. ..	Third	Westerville.
Frebis, Frank Xavier	Third	Ripley
Frederick, Joseph Allen	First	East Liverpool.
Fuller, Gilbert L.	First	Portsmouth.
Game, Francis Harvey	Third	Canal Winchester.
Gearhart, Bert W.	Second	Columbus.
Gibson, Henry K.	First	South Charleston.
Gorham, Ira Garfield	First	Perrysville.
Gray, Phil K.	First	Deavertown.
Gregg, William Brough	Second	Bradner.
Hagenbuch, George Edwin	Second	Urbana.
Hahn, George Philip	Second	Napoleon.
Hare, Russell T.	First	Marysville.
Harshman, John B.	First	Xenia.
Hartinger, Johnson Edgar Daniel	Second	Middleport.
Hazlebeck, William C.	First	Portsmouth.
Headley Sanford Alphonso	First	Jacksonville.
Heekin, Robert E.	First	Cincinnati.
Heltman, William L.	Second	New Bremen.
Hengst, James M.	First	Lancaster.
Hill, Alva J.	First	Toledo.
Hoffman, George T.	First	Malta.
Holtzman, Minard	First	Columbus.
Hoppes, George Lewis	Third	Eber.
Hopwood, Harry L.	First	Kenton.
Hornbeck, Frank H.	Second	Williamsport.
Housel, William J.	Third	Columbus.
Hugger, Fred W.	First	Ironton.
Huling, Frank	First	Columbus.
Ingalls, Osmer C.	First	Camp Chase.
Jones, Daniel C., B. Ph.	Second	Jackson.
Jones, Thomas S.	Second	Yorkville.
Juniper, Charles Walter	Third	Nelsonville.
Kearney, Allison J.	Third	Washington, C. H.
Kerr, Floyd Ellis	Third	Tippecanoe City.
Kewley, Joseph E.	First	Toledo.
King, John Randolph	First	Magnetic Springs.
Kirn, Edward George	Third	Lancaster.
Kirtley, Fred Hastings	First	Defiance.

COLLEGE OF LAW—Continued.

UNDERGRADUATES.

Name.	Year	Home Address.
Hubert Merle, B. A.	Second	Dayton.
Reiser, Charles C.	First	Bellville.
Reid, Frank W.	First	Dayton.
Reid, Frederick	First	Milo.
Reid, Thomas W.	Third	Findlay.
Reid, Clarence Dewey	Second	Norwalk.
Reid, John Larison	Third	Marysville.
Reid, Ralph M.	First	Columbus.
Reid, Wilbur B.	Second	Ashtabula.
Reid, James B.	First	South Charleston.
Reid, Logan Walker	Second	Sidney.
Reid, Franklin Ewing	Second	Columbus.
Reid, William Kooker	Second	Lancaster.
Reid, George J.	First	Reynoldsburg.
Reid, Ralph V. D.	Third	Pataskala.
Reid, Albert H.	First	Piqua.
Reid, Don P.	Second	Norwalk.
Reid, Thomas M.	First	Columbus.
Reid, Thomas H.	First	Ashland.
Reid, Earl Saddler	Second	Columbus.
Reid, Cloys P.	First	Rawson.
Reid, John M.	Third	Wellston.
Reid, William, B. A.	Third	Columbus.
Reid, Mamie Dell	First	Mercer.
Reid, Albert P.	First	Toledo.
Reid, Elza F.	First	St. Mary's.
Reid, William G.	First	Jackson.
Reid, R. Lewis	Second	Adena.
Reid, Simeon	Third	Zanesville.
Reid, Wilmer P.	Second	Lowell.
Reid, Gates Charles, Jr.	Second	Dayton.
Reid, Servitus	Second	Columbus Grove.
Reid, Earl H.	First	New Salem.
Reid, Charles P., B. A.	Second	Columbus.
Reid, Alva Kendall	First	Columbus.
Reid, Vernon F.	First	Leesburg.
Reid, Joseph E.	First	Ashtabula.
Reid, Raymond T.	First	Columbus.
Reid, Sherman Bronson	First	Columbus.
Reid, Harry M.	Second	Washington, C. H.
Reid, Orville	Third	Cellina.
Reid, Stockton	First	Columbus.
Reid, Charles Robert	First	Coraopolis, Pa.
Reid, Maurice	First	Morrow.
Reid, William Curtis	Third	Staunton.
Reid, Frank E.	Third	Columbus.
Reid, Earnest True	Third	Dayton.
Reid, William E.	First	McConnelsville.
Reid, Elmer A.	First	Tipton, Missouri.
Reid, Ralph H.	First	Franklin.
Reid, William Allen	Third	Zanesville.
Reid, Abel Vail	Second	Marengo.
Reid, Horace Leete	First	Portsmouth.
Reid, Charles Edgar	First	Wadsworth.

COLLEGE OF LAW—Concluded.

UNDERGRADUATES.

Name.	Year.	Home Address.
Snyder, Henry W.	First	Ironton.
Stark, Charles J.	First	Findlay.
Stiver, Joseph A.	First	Columbus.
Strayer, Jesse Elisha	Second	DeGraff.
Summer, Samuel N.	First	Shelby.
Swan, Frederick	Third	Marietta.
Taylor, Roy C.	Third	Washington, C. H.
Thomas, Herbert Spencer	Third	Wheeling, W. Va.
Thomas, J. Ralph	First	Columbus.
Thurstin, Wesley Standish	Third	Toledo.
Trump, Orestes R.	First	Columbus.
Tuttle, Alonzo H.	Third	Decatur, Illinois.
Van Ness, W. Philip	Second	Mechanicsburg.
Wagner, Oscar Cecil	Third	Kingston.
Wander, Charles Benjamin	Third	Mt. Vernon.
Ward, Asa Everett	Second	Marietta.
Ward, Kenneth B.	First	Painesville.
Weber, Alonzo Christian	Third	Lewisville.
Williams, Louis Boyer	Third	Dayton.
Williamson, J. Carl	First	Teria.
*Willis, Roche Carl	First	Columbus.
Wolf, Benjamin Jacob	Third	Gnadenhutten.
Wounell, Harry S.	First	Hamilton.
Woods, William Burroughs, B. Ph.	Third	Garrettsville.

*Died 1904.

COLLEGE OF PHARMACY.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Ackerman, Graham Burt, B. Sc. in Pharm. ....	.....	.....	Columbus.
Atkinson, Harry Churchill	Short	104	Pataskala.
Atkinson, Joseph Banard	Long	150½	Pataskala.
Balo, Finlay F.	Long	.....	Centerburg.
Beatty, Hugh Gibson	Short	106	Washington, C. H.
Boenan, Victor	Short	46	Shelby.
Bolenbaugh, Albert	Short	113	Canal Winchester.
Bolles, Herman	Short	54	Gallipolis.
Bowers, Charles Walter	Long	.....	Columbus.
Brooks, Joseph B.	Short	.....	Portsmouth.
Brower, Harold Ozias	Short	49	Farmersville.
Chaney, Lee F.	Short	103	Pricetown.

COLLEGE OF PHARMACY—Concluded.

UNDERGRADUATES.

Name.	Course.	Credit Hours.	Home Address.
Dow, Ralph	Long	36	Carey.
Dysart, Nelson C.	Short	116	Reynoldsburg.
Engleken, Edward	Short	50	Versailles.
Graetz, Hernandez Raymond...	Short	.....	Princeton, Ind.
Gregory, Carl Louis	Long	55½	Geneva.
Harrington, Edward Winslow ...	Short	43	Columbus.
Henderson, Herbert B., B. Sc. (Pharm.) .....	.....	.....	Laceyville.
Hidden, Harry Stuart	Special	133	Madisonville.
Huffman, Anson Tilden	Short	78	Bellaire.
Johnson, Columbus	Special	143	Louisville, Ky.
Keel, Claud	Short	77	Bucyrus.
Kelso, James	Long	.....	Corning.
Koehl, Philip Pearl	Short	84	St. Marys.
Laughbaum, Ray	Long	.....	Bucyrus.
Lawler, Fred James	Short	68	Mt. Vernon.
Long, William Carl	Short	13	Columbus.
Moore, C. Linly	Short	60	Moorefield.
Myers, Jesse B.	Short	73	West Alexandria.
McClintock, Chester W.	Short	54	Columbus.
McClure, Clarence Minor	Short	103	Hillsboro.
Patton, Clark	Short	40	Grand Rapids.
Rataiczak, Thomas Francis	Long	48	Stryker.
Sallady, Waltz Summer	Short	67	Derwent.
Sauerbrun, Otto Orville	Short	104	Shelby.
Shank, Clifford Leroy	Short	.....	Dodsonville.
Shank, Mrs. Leroy	Short	.....	Dodsonville.
Smith, Mabel Elsie	Short	105	Columbus.
Spease, Edward	Short	74	Dresden.
Spencer, Carl DeWitt	Long	32	Covington.
Stalder, Wilbur Henry	Short	54	St. Marys.
Tanner, Roy Elliott	Short	76	New Concord.
Van Cleve, Pearl Clark	Short	36	Big Plain.
Walter, Earl B.	Long	23	Salem.
Whitacre, William M.	Short	103	Springfield.
Winter, Carl	Short	129	Youngstown.

COLLEGE OF VETERINARY MEDICINE.

UNDERGRADUATES.

Name.	Credit Hours.	Home Address.
Adams, Willard Gilcrest	109	Akron.
Arnold, Ferrie Lee	5	Akron.

COLLEGE OF VETERINARY MEDICINE—Continued.

UNDERGRADUATES.

Name.	Credit Hours.	Home Address.
Atherton, William Thomas, D. V. M. ....	.....	Carrollton.
Atkins, Peyton D., V. S. ....	.....	Hallsville.
Bard, J. Eldoras, V. S. ....	.....	Sodom.
Bauman, Ernest Henry D. V. M. ....	.....	Dundee Lake, N. J.
Becker, Daniel Charles	64	Brenham, Texas.
Bittle, Seymour	64	Lewisburg.
Boggs, Howard Shannon, D. V. M. ....	.....	Kingston.
Breckenridge, William Kemper, D. V. M. ....	.....	Watertown.
Brobeck, Ivan J. V. S. ....	.....	La Rue.
Brown, Walter Alexander	64	Columbus.
Bullock, Alfred Davis, D. V. M. ....	.....	Milwaukee, Wis.
Burke, Edgar Lee, V. S. ....	.....	Bethel.
Burt, James H.	52	Erie, Pennsylvania.
Butcher, James Clyde, D. V. M. ....	.....	Wapakoneta.
Calph, Edward J.	64	Akron.
Carr, Frank Levi	64	Marlboro.
Carver, Rolly Jay	119	Leipsic.
Case, Claude Henry, D. V. M. ....	.....	Hudson.
Churchman, Moris Harper, V. S. ....	.....	Jerome.
Cooperrider, Rolland ....	.....	Glenford.
Daughtrey, George Hoadly ..	122	Sabina.
Dennis, Vernon Alva	119	Wauseon.
Dilts, Charles Ray D. V. M. ....	.....	Thornville.
Fitzgerald, Albert D.	122	Old Fort.
Francis, Reed Kilgore	104	Hilliards.
Funes, Thomas L., D. V. M. ....	.....	Buenos, Ayres, A. R.
Glacken, Elbert L.	31	Richwood, Ky.
Gonsebatt, Luis, D. V. M. ....	.....	Entre Rios, A. R.
Goss, Leonard Whittlesy	122	Edinburg.
Grace, William Albert	90	Columbus.
Griggs, Abraham Lincoln ....	.....	Vadis, W. Va.
Hackett, Clair Newton	59	Everett.
Hart, Carroll Park	64	West Richfield.
Hart, Harry Maurice	64	Columbus.
Heacock, Clyde Clark, V. S. ....	.....	Beloit.
Herrold, Charles Hoyt, V. S. ....	.....	Starr.
Holm, Robert Edwin, D. V. M. ....	.....	Welshfield.
Huffman, Ward T.	117	Williams Center.
Ibanez, Eduardo Benedicto, D. V. M. ....	.....	Cantamarca, Arg. R.
Imler, Fern Arthur	122½	Leistville.
Johnston, Carl Arthur, V. S. ....	.....	Akron.
King, Tullie	64	Canal Winchester.
Langdon, Elmer, D. V. M. ....	.....	Sabina.
Laughlin, Horace Wade, D. V. M. ....	.....	Belle Center.
Leidy, Edgar Theodore	64	Canal Winchester.
Limbaugh, Edward Christian	64	Fredericksburg.
Lipp, George Arthur, V. S. ....	.....	New Middletown.
Marquard, Samuel Jacob, D. V. M. ....	.....	Monroeville, Ind.
Marsteller, Ross Perry	122	Republic.
Martin, William Edgar	64	St. Johns.
Maynard, Lee, V. S. ....	.....	Ross.
Michael, Victor, D. V. M. ....	.....	Farmersville.
Murphey, Howard Sylvester	20	Avondale.
Musser, Robert Claude, D. V. M. ....	.....	Buckland.

COLLEGE OF VETERINARY MEDICINE—Concluded.

UNDERGRADUATES.

Name.	Credit Hours.	Home Address.
Newton, Howard M.	128½	Ashville.
Odell, Edward C.	31	Gahanna.
Oden, George W., D. V. M. ....	.....	Akron.
Oliver, Robert Evin	202	Chillicothe.
Pfaffman, George Arthur	138	Cleveland.
Pinkerton, Harry Edgar	122	Washington, C. H.
Planz, John, D. V. M. ....	.....	Akron.
Porter, Frederick William, D. V. M. ....	.....	Augusta.
Prahl, John Frederick	75	Akron.
Ralston, Wyatt Elgin, D. V. M. ....	.....	Findlay.
Redhead, William H., V. S. ....	.....	Glenville.
Reynolds, Howard Capwell, D. V. M. ....	.....	Factoryville, Pa.
Reynolds, Leo Dewitt	49	Madison.
Riddell, Theodore Wellington	122	Columbus.
Rigdon, Frank	106	Wapakoneta.
Rigdon, Scott J.	122	Columbus.
Riley, Henry Wright	64	Akron.
Schaffter, William Albert	122	Wooster.
Schmidt, John Peterson	47	Sherrard, W. Va.
Schuh, Herman	64	Columbus.
Scudder, Logan L. ....	.....	Columbus.
Shepard, Henry Glen, V. S. ....	.....	Sulphur Grove.
Silfa, Lagaro, Jr.	28	San Pedro de Macoris Santo Domingo.
Skidmore, Don I., V. S. ....	.....	West Mansfield.
Smith, Howard Ellenwood	116	Dunham.
Sockman, Clifford Clyde	64	Columbus.
Sola, Ernesto, D. V. M. ....	.....	Salta, Arg. Rep.
Springer, Samuel Elza, V. S. ....	.....	Lakefork.
Studer, Benjamin	49	Trail.
Thrower, John Dudley, D. V. M. ....	.....	Mayhew, Miss.
Washburn, Leo	119	Greenwich.
Way, Lynn J., D. V. M. ....	.....	Youngstown.
Whitwood, Luther Dawson, D. V. M. ....	.....	Canister, N. Y.
Wikel, Marion ....	.....	Huron.
Worthington, William D., V. S. ....	.....	Pleasant Corners.

ENROLLMENT LAKE LABORATORY—Summer of 1903.

	{ A.B., Neb. }	
Brace, Edith M.	{ A.M., Chicago }	Columbus
Carter, C. J., A.B., O. W. U.		Urbana
Cook, Melvillt T.	{ A.B., Stanford }	Greencastle, Ind.
	{ A.M., DePauw }	
Dunbar, Frances Jewett, A.B. Michigan Univ.		Ann Arbor, Mich.
Griggs, Robert F., B.Sc. O. S. U.		Columbus
Harvey, Gertrude F., A.B. Cincinnati		Bond Hill
Harvey, Ruth S.		Bond Hill
Herms, William B., B.Sc. German Wallace College		Berea
Mark, Clara G., O. S. U.		Columbus
McPherson, C. G., O. S. U.		Columbus
Mead, Charles S., O. S. U.		Columbus
Means, Hugh J., O. S. U.		Columbus
Metz, W. C., O. S. U.		Newark
Morse, Max W., B.Sc. O. S. U.		Columbus
Osborn, Morse Foster		Columbus
Pallister, Hugh D., Case School		Cleveland
Riddle, Lumina C., B.Sc., M. Sc., O. S. U.		Columbus
Sanders, James G.	{ A.B., Otterbein }	Columbus
	{ A.M., O. S. U. }	
Sayres, Samuel Carter, DePauw Univ.		Attica, Ind.
	{ A.B., Lake Forest }	
Swezey, Otto H., { M.Sc., Northwestern }		Columbus
Surface, Frank Macy, O. S. U.		Eaton
York, Harlan H., B.Sc., DePauw		Cartersburg, Ind.
Zehring, Edgar Levi, O. S. U.		Germantown

GENERAL SUMMARY.

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE—		
Graduate Students	2	
Undergraduates	253	
		255
COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE—		
Graduate Students	25	
Undergraduates	496	
		521
COLLEGE OF ENGINEERING—		
Undergraduates	744	744
COLLEGE OF LAW	171	171
COLLEGE OF PHARMACY	47	47
COLLEGE OF VETERINARY MEDICINE	91	91
LAKE LABORATORY, SUMMER 1903.	23	23
CIVIL ENGINEERING, SUMMER 1903	9	9
SHOPWORK, SUMMER OF 1903	72	72
Total	1,933	
Names counted twice	106	
Net total	1,827	

SUMMARY BY COUNTIES.

Adams	2	Hamilton	29	Noble	4
Allen	10	Hancock	11	Ottawa	4
Ashland	14	Hardin	10	Paulding	1
Ashtabula	16	Harrison	7	Perry	12
Athens	7	Henry	4	Pickaway	11
Auglaize	26	Highland	17	Pike	5
Belmont	17	Hocking	2	Portage	11
Brown	4	Holmes	4	Preble	9
Butler	21	Huron	15	Putnam	5
Carroll	4	Jackson	10	Richland	10
Champaign	17	Jefferson	9	Ross	18
Clark	18	Knox	16	Sandusky	7
Clermont	9	Lake	18	Scioto	12
Clinton	12	Lawrence	9	Seneca	10
Columbiana	20	Licking	29	Shelby	7
Coshocton	10	Logan	11	Stark	20
Crawford	10	Lorain	19	Summit	36
Cuyahoga	33	Lucas	14	Trumbull	9
Darke	9	Madison	15	Tuscarawas	13
Defiance	3	Mahoning	23	Union	18
Delaware	12	Marion	7	Van Wert	4
Erie	13	Medina	8	Vinton	2
Fairfield	26	Meigs	11	Warren	16
Fayette	17	Mercer	5	Washington	11
Franklin	553	Miami	21	Wayne	11
Fulton	9	Monroe	3	Williams	11
Gallia	3	Montgomery	56	Wood	9
Geauga	5	Morgan	10	Wyandot	3
Greene	24	Morrow	14		
Guernsey	8	Muskingum	24		

SUMMARY BY STATES AND COUNTRIES.

Argentine Republic	11	Kentucky	7	Poland	1
California	2	Louisiana	1	Porto Rico	2
Colorado	1	Maryland	3	Roumania	1
Connecticut	1	Massachusetts	5	Santa Domingo	2
Cuba	1	Mexico	2	Tennessee	2
District of Columbia	2	Michigan	2	Texas	4
Florida	1	Mississippi	1	Turkey	1
Georgia	1	Missouri	4	Utah	1
Illinois	5	New Jersey	6	Vermont	1
Indiana	15	New York	10	Virginia	1
Japan	1	North Dakota	1	West Virginia	11
Kansas	1	Ohio	1652	Wisconsin	1
		Pennsylvania	27		

GRADUATES

GRADUATES

The faculty of the Ohio State University are anxious to place a copy of each annual catalogue in the hands of every graduate. They will esteem it a favor if any alumnus who changes his residence will notify the Executive office of his new address and occupation. They will also be grateful for any information from any source that may assist in making or keeping the Directory of the Alumni complete and correct.

ALUMNI ASSOCIATION

OFFICERS FOR 1904-1905

PAUL M. LINCOLN, '92, Pittsburgh.....	<i>President</i>
WILLIAM RENICK DUNLAP, '95, Kingston	<i>First Vice-President</i>
ELLEN B. TALBOT, '90, Berlin, Germany	<i>Second Vice-President</i>
FRANCIS L. LANDACRE, '95, Columbus.....	<i>Secretary</i>
JAMES E. BOYD, '91, Columbus.....	<i>Treasurer</i>
WM. H. PAGE, '92, Columbus	<i>Orator</i>
WALLACE C. SABINE, '86, Cambridge, Mass.	<i>Alternate</i>

COMMITTEE ON NECROLOGY

CARL G. DONEY, '91, Columbus	Term expires 1905
E. S. T. SCHAUB, '85, Columbus.....	" 1906
EDITH D. COCKINS, '94, Columbus	" 1907

OHIO STATE UNIVERSITY ASSOCIATION OF NEW YORK

H. E. PAYNE, '87.....	<i>President</i>
256 Broadway.	
A. E. SELLENINGS, '96.....	<i>Secretary</i>
102 East Thirty-first street.	
GEO. N. COLE, '91.....	<i>Treasurer</i>
265 Broadway.	

COUNCIL

ARTHUR B. TOWNSEND, '78.....	
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OHIO STATE UNIVERSITY ASSOCIATION OF CLEVELAND

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366 Marce street.	

DIRECTORY

A

- Abbott, Arthur Grant, 1889, B. Sc. (Agr.) Wadsworth, Dairy Farmer.
Abbott, Royal A., 1900, B. Ph., M. A., 1902, Assistant in English, Ann Arbor, Mich., 718 Monroe street.
Ackerman, Eli Osborn, 1884, C. E., Station B, Columbus, Engineer Maintenance of Way Columbus Street Railway Co.
Ackerman, Fremont, 1883, C. E., Los Angeles, Cal., civil engineer.
Ackerman, Graham Burt, 1904, B. Sc., (Phar.), Columbus, 34 Starr avenue.
Adams, Elizabeth Jane, 1903, B. A., New Carlisle, O., Principal of High School.
Addison, Arthur Everett, 1895, B. Ph., 1900, LL. B., Columbus, 436 W. Fifth, attorney.
Addison, Louis Granville, 1892, LL. B., Columbus, attorney-at-law, 350 W. Eighth avenue.
Addison, Clarence Maywood, 1896, B. Ph., 1900, LL. B., Columbus, 1128 Neff avenue, attorney.
Agler, Eulalia, 1895, G. Ph. (Mrs. Whitford), Columbus, with Columbus Pharmacal Company.
Albert, Louisa Mary, 1895, B. A. (Ohio Wesleyan University), 1896, G. Ph., Mrs. A. E. Vinson, Columbus.
Aldrich, Chester H., 1888, B. A., LL. B., David City, Neb., attorney-at-law.
Aldrich, Edgar S., 1897, M. E. in EE., Moscow Idaho, Vice-President and Manager Moscow Electric Light and Power Company.
Alexander, St. Clair, 1893, M. E. in EE., stock yards, Kansas City, Mo., 1534-1536 St. Louis avenue.
Alexander, Charles P., 1896, M. E. in EE., Canton, O., District Manager Northwestern Mutual Life Insurance Company.
Allaman, William Ernest, 1896, G. Ph., Columbus, M. D., O. M. U., 1902.
Allen, Edward Harrison, B. A. (Harvard), 1899, LL. B., Piqua, O.
Allen, Lucy, 1897, B. A., 1900, M. A. (Mrs. George Smart), 848 Hough avenue, Cleveland, O.
Alsford, Robert Clyde, 1904, M. E., Utica, O.
Alsford, Percy Reed, E. M., Central City, Col., Standard Assay Office, mining engineer and chemist.
Alsford, Frederick Charles, 1892, E. M., Clifton, Ariz., Superintendent Stevens Copper Company.
Alspach, Rufus Edwin, 1897, M. A. (B. A. Heidelberg), Thornville, O.
Alvord, Justus Elvin, 1901, LL. B., Toledo, O.
Ames, Edward Holiday, 1903, C. E., 1327 Federal street, Allegheny, Pa., Assistant on Engineering Corps of P. F. W. & C. A. A.
Amos, Frank Craig, 1901, LL. B., 1904, LL. & M., Columbus, attorney-at-law, 209 Spahr Bldg.
Anders, Thomas Olin, 1903, D. V. M., Fremont, O.
*Anderson, James T., 1884, B. A., died May 13, 1904, at Colorado Springs, Col.
Anderson, Newton, M., 1898, B. Sc., Asheville, N. C., Principal of Asheville school.
Andress, Edna A., 1900, B. Ph. (Mrs. Julius Stone), Arlington Heights, O.
Andrews, Albion Joseph, Jr., 1893, LL. B. (B. S. Ohio Wesleyan University), Zanesville, O., druggist, Cor. Main and Fifth streets.
Andrews, Catherine E., B. A. (Wellesley College), 1903, M. A., assistant in chemistry, State University, Columbus.

*Dead.

- Andrews, Lincoln Elmer, 1893, LL. B., 1895, B. Ph., Columbus, attorney-at-law, 23 West Ninth avenue.
- Armstrong, Clara, 1901, B. Sc., (Dom. Sci.), (Mrs. Nelson P. Neill), San Bernardino, Cal.
- Armstrong, Daniel Hinkle, 1903, LL. B., Jackson, O.
- Armstrong, Edna, 1897, B. Ph., Columbus, 298 King avenue, teacher.
- Armstrong, William H., 1890, G. Ph., Marysville, druggist.
- Arnold, Charles Lincoln, 1890, B. Sc., 1894, M. Sc., 328 West Eighth avenue, Columbus, assistant professor in mathematics, State University.
- Arnold, Edwin E., 1898, M. E. Westinghouse Machine Company, E. Pittsburg, Pa., Station "D."
- Arnold, Mary Louise, 1904, B. A., Columbus, 289 E. State street.
- Atherton, William Thomas, 1904, D. V. M., Carrollton, O.
- Atkins, G. Glenn, 1888, B. A., Burlington, Vt., Congregational minister.
- Atkinson, Warren, 1899, M. E., Maintenance Department New York Telephone Company, Brooklyn, N. Y.
- Auld, James, A., 1897, M. E. in EE., Columbus, with D. L. Auld, East Long street.
- Austin, John Gustave, 1899, LL. B., Toledo, O.

B

- Bachtell, Nellie May, 1895, B. A., 343 King avenue, Columbus, O.
- Backus, Henry Ward, 1894, B. A., Columbus, O., Columbus Savings & Trust Co., 50 E. Broad street; Columbus, O., 1255 Neil avenue.
- Baer, Philip, Jr., 1897, B. Sc. (Agr.), Canal Dover, Dairy Farmer.
- Bagley, Anna Gertrude, 1894, G. Ph., Columbus, with the Kauffman-Lattimer Co.
- Bailey, Ervin George, 1903, M. E., Fairmount, West Va., 127 Maple avenue, Fairmount Coal Company.
- Baker, Chauncey Brandt, 1904, B. Sc., Captain U. S. A., Washington, D. C.
- Baker, James Burt, 1898, LL. B., Ph. M. (Mt. Hope College), Salem.
- Baker, John Ezra, 1897, B. A., 1898, LL. B.
- Baker, William Hollister, 1892, B. Agr., Trenton, Mo., R. F. D., No. 3, stock farmer.
- Baldwin, Elizabeth Grant, 1899, B. Ph., Columbus, "The Dennison."
- Baldwin, Zoa Belle, 1896, B. A. (Mrs. George Gugle), Columbus, 325 West Sixth avenue.
- Ball, Danforth Ewers, 1901, B. Sc., Columbus, 565 E. Broad street.
- Ball, Emma Leanna, 1895, B. Sc., 1896, M. Sc., (Mrs. Daniel Thomas), South Fifth street, Ironton, O.
- Ball, Ernestine Faye, 1903, B. A., 1904, M. A., Columbus, 565 East Broad street.
- Ball, Fred S., 1888, B. Ph., Montgomery, Ala., First National Bank Building, attorney-at-law.
- Bancroft, Gay, 1898, B. A., Columbus, 26 West Gay street.
- Barcus, Eliza D., 1900, B. A., Schenectady, N. Y.
- Barcus, Miner, 1897, M. E. in EE., Schenectady, N. Y., with General Electric Company, 1008 State street.
- Barlow, Helen M., 1898, B. Ph., Columbus, 37 South Ninth street.
- *Barlow, Moses Henry, 1901, died December 27, 1903, Dayton, Tenn.
- Barnaby, Charles L., 1898, C. E., Assistant Engineer, Pennsylvania Lines, Maintenance of Way Department, Chicago, Ills.
- Barnaby, Josephine, 1896, B. Ph., teacher, East Cleveland, assistant principal in East Cleveland High School.
- Barringer, Lawrence Eugene, E. M., General Electric Company, Schenectady, N. Y., Research Department.
- Barrows, Harry Holbrook, 1898, C. E., Cincinnati, O., Roadmaster of Cincinnati Division, Cincinnati, New Orleans & Texas Pacific Ry. (Queen & Crescent Route.)
- Barry, William John, 1903, C. E., Doanville, O., C. H. & C. St. Ry.
- *Bartholomew, Clyde Stanley, 1896, C. E., died June 23rd, 1900.
- Basterdes, Ada Mabel, 1890, B. Ph., (Mrs. G. C. Barnes), New Richland, Minn.
- Bates, Albert Harlan, 1892, LL. B., M. E. (Lehigh University), Cleveland, O.
- *Bates, Josephine M., 1881 (Mrs. Florizel Smith), died ———, 1900.

*Dead.

- Bates, Wesley C., 1882, LL. B., 35½ North High street, Columbus, attorney.
- Batterson, Annie Elizabeth, 1904, B. Sc., (Dom. Sc.), Grandview, O.
- Baughman, George W., 1897, G. Ph., Springfield, pharmacist.
- Baumann, Ernest Henry, 1904, D. V. M., Dundee Lake, N. Y.
- Beach, David Price, 1895, C. E., Wellsville, Pennsylvania Railroad, Assistant Engineer Corps.
- Beach, Howard Lindsley, 1904, M. E. in EE., Glen Ridge, N. J.
- Beach, Margaret Alice, 1891, B. Ph. (Mrs. Wilson Holman), Bayonne, N. J.
- Beach, Robert Kellogg, 1890, B. Ph., Cleveland, O., Editor Commercial Bulletin, Seneca and St. Clair.
- Beal, Edwin George, A. B. (O. W. U.), LL. B., 1902, Bucyrus.
- Beale, Harry Glenn, 1902, B. Sc., Mt. Sterling, dealer in boots and shoes.
- Beardsley, Orsamus D., 1898, B. Ph., Chicago, Ill., 4325 Grand Blvd., Secretary and Treasurer Sykes Steel Roofing Co.
- Beattie, James Herbert, 1904, B. Sc., (H. & F.), Zanesville, O.
- Beattie, William Renick, 1894, B. Sc., 1897, M. Sc. (in Horticulture), Washington, D. C., U. S. Department of Agriculture, Bureau of Plant Industry, Assistant in Botany.
- Beck, Arthur Andrew, 1893, C. E., Columbus, 329 South Ohio avenue, Deputy County Surveyor, 31 Board of Trade.
- Beer, James Anderson, 1903, B. Sc., Columbus, Fellow in Anatomy and Physiology, O. S. U.
- Belden, Herbert Lucius, 1902, B. Sc., Washington, D. C., Bureau of Soils, U. S. Department of Agriculture, soil agent and expert.
- Belden, Sanford Bonner, 1895, E. M., Manager Pittsburg Office Jeffrey Manufacturing Company, 402 Times Bldg.
- Bell, Florence Louise, 1900, B. Ph., Columbus, 382 East Town street.
- Bell, Mary Edith, 1894, B. Ph., teacher in Central High School, Columbus, 382 East Towne street.
- Bellows, Gertrude Halm, 1902, B. Ph., Columbus, 325 East Town street.
- Beman, Lamar Taney, A. B. (Western Reserve), 1902, M. A., Cleveland, O., 29 McConnell street.
- Bender, John Ellis, 1903, D. V. M.
- Benedict, Eric Wilson, 1904, M. E. in EE., Columbus, 175 West Tenth avenue.
- Bennett, Henry C., 1890, B. A., 100 Washington street, Chicago, Ill., attorney-at-law.
- Bennett, Samuel E., 1890, D. V. M., 44 Kirby street, Boston, Mass.
- Bentley, William Preston, 1885, B. Agr. (B. A. 1890, M. A. 1893, Bethany College), 567 Jones avenue, Braddock, Pa., minister.
- Bertsch, Joseph Franz, 1896, LL. B., Columbus, 124 West Ninth avenue.
- Bibbee, George E., 1897, LL. B. (A. B. Ohio Wesleyan University), Columbus, 111½ South High street, attorney.
- Biebl, Andrew J., 1903, B. Sc., Gilbon, Minn.
- Biebel, Herman Matthews, 1896, M. E. in EE., Chicago, Ill., electrical engineer, with Western Electric Company, designing electrical engineer, 903 S. Central Park avenue.
- Bigelow, Bernard Barton, 1903, B. Ph., Findlay, student, Findlay Business College.
- Birnie, James Harry, 1904, B. Sc., Marietta, O.
- Bischoff, John Wallace, 1899, E. M., Washington, D. C., 322 I street, southwest.
- Bissing, William F., 1893, M. E. in EE. (A. B. Johns Hopkins University), New York City, 49 Wall street, patent law.
- Bittner, William Pitt, B. Ph., 1902, Sandusky, O., care Journal and Local.
- Blackburn, Frank H., 1896, M. E. in EE., Fostoria, Superintendent, Fostoria Incandescent Electric Light Co.
- Blair, Wm. Ariel, B. Sc., (Ohio Northern University), 1904, L. L. B., Hillsboro, O.
- Blaire, Edward Guy, 1895, G. Ph., Shawnee, Blaire Cash Pharmacy.
- Blakiston, Anna Houston, 1897, B. Ph. (Mrs. R. E. Powell), 4239 Regent Square, Philadelphia, Pa.
- Blakiston, Mary, 1893, B. Ph., Columbus, South Eighteenth street, (Mrs. Wellington Guild.)
- Bleininger, Albert Victor, 1901, B. Sc., chemistry instructor in Ceramics, State University, Columbus, 116 West Ninth avenue.

- Blinn, Ray S., 1893, B. S., Sparta, O.
 *Bloom, Edwin M., 1893, B. Sc., died 1894.
 Bloom, J. George, 1889, C. E., Topeka, Kansas, Principal Assistant Engineer, Chicago, Rock Island & Pacific Ry.
 Bloomfield, Lloyd Morris, 1891, B. Agr.
 Bock, Harrison W., 1898, LL. B., 1899, B. Ph., attorney, Pittsburg, Pa., 520 Frick Building.
 Bock, Theodore Emil, 1901, LL. B., Hamilton, O.
 Bockius, Harry Graham, Ph. B. (Yale University), 1899, LL. B., New York, N. Y., 26 Liberty street.
 Bodman, Mary E., 1898, B. Ph., Bement, Ill., teacher.
 Boehme, Adolphus Joe, 1901, M. E., Youngstown, O., 109 East Wood street, Cleveland, Youngstown & Pittsburg R. R.
 Boesche, Felix John, 1896, G. Ph., Denver, Col.
 Boesel, Frank Tilden, 1896, B. Ph., LL. B. (Harvard), Milwaukee, Wis., Rooms 1-4, Empire Bldg., "Lenicheck, Fairchild & Boesel," Attorney at Law.
 Boggs, Howard Shannon, 1904, D. V. M., Kingston, O.
 Bogue, Ernest Everett, 1894, B. Sc., H. & F., 1896, M. Sc., Professor of Forestry, Michigan Agricultural College.
 Bohn, Frank A., 1900, B. Ph., 1904, Ph. D., University of Michigan,
 Bohn, William Edward, B. A. (German Wallace College), 1900, M. A., 1020 University avenue, Ann Arbor, Mich. Instructor in English. University of Michigan.
 Bomberger, Walter Nelson, 1903, E. M., Youngstown, O., 1822 Wilson avenue.
 Bond, Charles Grosvenor, 1899, LL. B., New York City, with N. Y. Life Insurance Company, 1917 Park Row Bldg.
 Bone, John H., 1893, B. Sc., 1896, B. Sc. (Agr.), Shadeland, Ind., farmer.
 Bonnet, Alvin Cook, 1903, B. A., Columbus, 550 East Town street, student, O. S. U., Law School.
 Booth, Carl Howard, 1903, B. Ph., Columbus, Central Branch Y. M. C. A., Cleveland, O.
 Booth, Cora Vrooman, 1903, B. Ph., Columbus, 102 North Garfield avenue.
 Booth, Lucy Adelaide, 1892, M. A. (B. A., Ohio Wesleyan University), 1894, Ph. D., Mount Pleasant, Iowa, Professor of History, Iowa Wesleyan University.
 Boothman, Dale Maxwell, 1903, M. E., Bellaire, O., 3765 Jefferson street, apprentice machinist.
 Bope, George W., 1897, LL. B., Columbus, attorney-at-law, 402 West Seventh avenue.
 Bostater, Herbert Lee, 1904, M. E. in EE., Ney, O.
 Bostwick, Homer Z., 1900, B. A., 1902, LL. B., Columbus, 201 West Eleventh avenue. Attorney.
 Bostwick, Oliver Newton, 1902, C. E., Civil Engineer B. & O. Ry., Newark, O.
 Bott, George Robert, 1901, M. E., Columbus, with Kincade & Liggett, designer of special machinery.
 Bowden, Harry W., 1900, C. E., Mt. Vernon, 201 West Vine street, draftsman Mt. Vernon Bridge Company.
 Bower, Jerome G., 1897, M. E., Pressed Steel Car Company, Chicago, Ill.
 Bowles, John Porter, 1902, B. Ph., Columbus, Secretary, Columbus Street Cleaning Department, Office. 176 East Long street.
 Bownocker, John A., 1889, B. Sc., 1897, D. Sc., Columbus, Professor of Inorganic Geology, State University.
 Boyd, Emma, 1888, B. Ph., Dennison avenue, Columbus, teacher in the North High School.
 Boyd, James Ellsworth, 1891, B. Sc., Columbus, 60 West Maynard avenue, Associate Professor of Mathematics, State University.
 *Boyd, James G., 1897, D. V. M., died 1900.
 Boyd, Martin L., 1897, LL. B., B. Ph. (Scio College), Columbus, 265 East Eleventh avenue.
 Bradford, Ernst, 1892, G. Ph., Columbus, chemist and superintendent The Pioneer Stove Works.
 Bradford, Frances Elizabeth, 1903, B. Ph., New York City, art student, Chase Institute.

*Dead.

- Bradford, Joseph Nelson, 1883, M. E., 54 West Tenth avenue, Columbus, Professor of Architecture and Drawing, State University.
- *Brand, Harry Frank, 1896, B. Ph., 1897, LL. B., died 1903.
- Brandt, James Herbert, 1899, B. A., Greencastle, O.
- Brandt, Ulysses Sherman, 1895, B. A., Canal Winchester, O.
- Brannan, Thomas Hays, 1903, C. E., Columbus, near corner King avenue and Neil, City Engineer's office.
- Brashear, Edward Rosemond, 1903, C. E., Columbus.
- Bratton, Alice, 1901, B. Sc. (Dom. Sci.), Columbus, 1309 Neil avenue, teacher of Dom. Sci., Industrial School.
- Braun, Joseph G., 1897, G. Ph., Columbus, 802 South Champion avenue, pharmacist.
- Breckenridge, William Kemper, 1904, D. V. M., Watertown, O.
- Brelsford, Harley, 1898, B. Ph., Christianburg, O.
- Brewer, Charles Reed, LL. B., Columbus.
- Brewer, John Whitney, 1896, G. Ph., Columbus, 126 West Tompkins street, pharmacist, with W. C. Wendt, South Fourth street.
- Bridge, Effie Irene, 1903, B. A., Columbus.
- Bridgeman, Benjamin Lounie, 1904, C. E., Syracuse, O.
- *Brier, Harvey E., 1890, D. V. M., died Feb. 18, 1904.
- Bright, Frederick I., 1900, LL. B., Logan, Ohio, attorney.
- Britton, Guy, 1904, C. E., Simons, O.
- Britton, John Carr, 1898, B. Sc. (Agr.), Washington, D. C., Bureau of Soils, U. S. Department of Agriculture.
- Bronson, Hiran S., 1897, LL. B. (B. L., Cornell University), Columbus, attorney, 1601 Hawthorne street.
- Brooks, Herbert Barton, 1903, M. E. in EE., Washington, D. C., Laboratory Assistant, Bureau of Standards.
- Brooks, Stanley Grange, 1901, B. Sc., Columbus, traveling salesman for D. L. Auld, East Long street.
- Brophy, James Francis, 1899, E. M., Frostburg, Md.
- Brown, Albert Marion, 1901, B. Ph., 3133 Pine street, St. Louis, Mo.
- Brown, Frank, 1899, M. A. (A. B., Macalester College), teacher in High School, Ravenwood, Ill.
- Brown, Frederick W., 1888, E. M., Florence, Col., consulting chemist and accountant for The Portland Cement Company.
- Brown, Harry Wilbur, 1902, D. V. M., Columbus, 1449 Fair avenue.
- Brown, John Quincy, 1901, M. E., Oakland, Cal., Assistant General Manager and Engineer Oakland Transit Company, Assistant General Manager and Engineer San Francisco, Oakland & San Jose R. R.
- Brown, Newton H., 1893, M. E. in EE., (M. A. Cornell, 1898), (Ph. D. Ill. Wesleyan, 1900), College Station, Texas, Professor of Physics and Elect. Eng., Ag'l. and Mechanical College of Texas.
- Brown, William Craig, (A. B., University of Wooster, 1902, LL. B., attorney-at-law, Steubenville, O.
- Bruce, Charles A., 1895, B. A., Columbus, Associate Professor of Romance Languages, State University, 235 West Tenth avenue.
- Brugger, Harvey, 1903, B. Sc., Steubenville, O., Teacher of Science High School.
- Brumley, Daniel, 1895, C. E., Elizabethtown, Ky., Roadmaster L. & N. R. R. Co.
- Bruning, Henry Dietrick, 1896, C. E., Columbus, 768 Oak street, instructor in civil engineering, O. S. U.
- Bryant, David Clifton, 1904, B. A., Superintendent of Schools, St. Paris, O.
- Bryant, William Cheney, 1902, B. Ph., Bayombong, Nueva Viscoya, Phillipine Is., Secretary and Treasurer of Bayombong.
- Buchenburg, Alvin E., 1900, M. E. in EE., Wauseon, O., consulting engineer.
- Buck, Ralph William, 1904, B. A. Cardington, O.
- Buckman, Arthur Leslie, 1897, M. E. in EE., Toledo, 637 Oakwood avenue, superintendent of equipment, Home Telephone Company.
- Buckman, Ola., 1895, B. Sc. (M. D., Cleveland University of Medicine and Surgery), Norwalk, O.
- Bugby, Morris Oliver, 1904, B. Sc., (Agr.), Kingsville, O.
- Bunnell, Larone A., 1898, G. Ph., pharmacist with I. H. B. White, Winchester, Indiana.

*Dead.

- Burgess, James Henry, 1900, B. Ph., LL. B., (University of Michigan, 1902), Sheridan, Wyo., attorney-at-law.
- Burkett, Charles William, 1895, B. Sc. (Agr.), 1898, M. Sc. (Agr.), professor of agriculture, North Carolina College of Agriculture and Mechanic Arts, West Raleigh, N. C.
- Burkett, Dora Van Buren, 1897, B. Ph., M. D., (O. M. U.), Columbus, physician, 185 East State street.
- Burkey, Charles Paul, 1903, LL. B., Pleasantville, Ohio.
- Burnett, Whittier, 1903, B. Ph., Lytle, O., Superintendent of Lytle High School.
- Burns, James Ferguson, 1891, C. E., Lebanon, Ky., roadmaster L. & N. Ry.
- Burns, Sara L., 1904, B. A., Columbus, 15 East Naughton.
- Burr, Harriet G., 1897, B. A., M. A., 1903, Tacoma, Washington, teacher in private school.
- Burr, Karl Edward, B. A. (Princeton, 1900), 1903, LL. B., Columbus.
- Burrell, Glenn Smith, 1904, C. E., New Lexington, O.
- Butcher, Frederick Eric, 1901, B. Ph., Lenox Hotel, Columbus, assistant export manager of Kilbourne, Jacobs Mfg. Co.
- Butcher, James Clyde, 1904, D. V. M., Wapakoneta, O.
- Butler, Blanche Woodruff, 1901, B. A., (Mrs. Robert Marriott), Denver Colorado.
- Butler, James Marion, 1894, LL. B. (A. B., Ohio Wesleyan University), Columbus, City Solicitor, 198 East Town street.
- Butterworth, William H., 1898, B. A., Columbus, 45 North Seventeenth street.
- Bygate, Harry Goldsmith, 1899, M. E., 423 Jefferson avenue, Niagara Falls, N. Y.
- Byers, Clara, 1894, B. Ph. (Mrs. Coles A. Raymond), Toledo, O., 1225 Miami street.

C

- Cahen, Alfred, 1894, LL. B., Allegheny, Pa.
- Calkins, George Herbert, 1895, M. E. in EE., production clerk General Electric Company, Schenectady, N. Y., 906 Union street.
- Calkins, William Bartlett, 1898, G. Ph., Denver, Col., chemist Denver Gas and Electric Company.
- Callender, Sherman, D., Ph. B. (Oberlin College), 1898, LL. B., Detroit, Mich., 43 Moffat Bldg., attorney-at-law.
- Calvin, Anthony B. (A. B., Northeastern Ohio Normal), 1900, LL. B., Youngstown, 1904 Market street.
- Cameron, Gaylor Malcolm, 1904, M. E. in EE., Jeromeville, O.
- Cameron, Harry Ezra, 1901, C. E., structural draughtsman, McClintic Marshall Construction Company, Wilkinsburg, Pa.
- Campbell, Robert, 1904, B. A., Toledo, O.
- Canaga, George Orlando, 1895, LL. B. (Scio College), B. A., Scio, O.
- Canfield, Charles H., 1897, D. V. M., Indianapolis, Ind., government meat inspector, in care of Kingan & Co.
- Canfield, Dorothea Frances, 1899, B. Ph., 1904, Ph. D., Columbia Univ., New York City, Secretary Horace Mann School, 116th street and Seventh avenue, Graham Court.
- Canfield, Leander Randall, 1896, B. Ph., Cleveland, O., 533 Society for Savings Building, attorney.
- Cannon, Anna Catharine, 1901, B. Ph., Columbus, Neil avenue near Sixth avenue, Columbus "Citizen."
- Capron, Marshall Fremont, 1888, M. E., chief mechanical engineer, Seamless Steel Tube Company, Detroit, Mich.
- Carmack, Caroline Martha, 1904, B. A., Columbus.
- Carpenter, Jessie Marie, 1903, B. Ph., Columbus, 1251 Bryden road.
- Carr, Hugh Stanley, 1896, M. E. in EE., The American Carbolite Company, Consulting Engineer, Constantine Hydraulic Co., of Constantine, Mich.
- Carr, James Gray, 1897, B. A., Coshocton.
- Carril, Pedro Leon del, 1903, D. V. M., San Juan, Argentine Republic.
- Carroll, Patrick Henry, 1894, E. M., Herrin, Ill., superintendent Big Muddy Coal and Iron Company.
- *Carroll, William Hunt, 1894, LL. B., A. M., (Havenford College, Pa.)
- Carson, Eleanor Eliza, 1902, B. Ph., Delaware.

*Dead.

- Carson, Samuel George, Ph. B. (Hiram College, 1901, LL. B.), Cleveland, O., 236 Superior street, Room 3.
- Carson, Samuel King, 1895, M. E. in EE., M. D. (Ohio Medical University), Acting Assistant Surgeon, U. S. A., Manila, P. I.
- Cartzdafner, Roy Edwin, 1903, M. E., assistant in Mechanical Engineering, Ohio State University.
- Cary, Charles R., 1900, LL. B. Millersburg.
- Case, Claude Henry, 1904, D. V. M., Hudson, O.
- Cathcart, Josephine M., 1888, B. Sc., 2832 Euclid avenue, Cleveland, accountant.
- *Catlin, Homer Clark, 1896, C. E., died March 10, 1902.
- Cartwright, Henry Gilroy, 1895, LL. B., Wilmington, O.
- Cavanaugh, Andrew F., 1900, M. E., draftsman, F. M. Prescott Steam Pump Co., Milwaukee, Wis., 522 Milwaukee street.
- Cavin, Frank Thomas, 1902, E. E., Schenectady, N. Y., General Electric Co.
- Cellarius, Frederick Julius, 1888, C. E., Dayton, assistant city engineer.
- Chamberlain, Helena W., 1884, B. A. (Mrs. Ellis Lovejoy), 8 City Building, New Lexington, O.
- Chamberlain, Robert Marcus, 1901, B. Sc., Youngstown, O., 886 Mahoning avenue, Assistant Chemist, Ohio Steel Plant, U. S. Steel Corporation.
- Chalmers, Agnes Florida, 1895, B. Ph.
- Chambers, William Royal, 1904, M. E., Damascus, O.
- Chappell, Walter Evans, 1898, M. E. in EE., Manchester, England, 55 Molyneux street, with British Westinghouse Electric and Manufacturing Company, Trafford Park, Manchester.
- Charters, William Filson, 1887, B. Ph., Sidney, tax inquisitor.
- Chaney, James William, 1902, B. Ph., 510 McIntire avenue, Zanesville, O., Minister, M. E. Church.
- Cherryholmes, W. K., 1881, B. Sc., M. D., Hamilton, O., physician, 109 South Third street.
- Chubb, Charles St. J. Jr., 1904, C. E. (Arch.), Columbus, 135 West Eighth ave.
- Chubb, Joseph Horace, 1904, C. E., Columbus, 135 West Eighth avenue.
- Cilley, Raymond, 1896, M. E., Brooklyn, N. Y., 1190 Forty-fourth street, chief draftsman, The Graham-Fox Motor Company.
- Clagett, Arthur E., 1903, B. Ph., Dayton, teacher.
- Clapp, Katharine B., 1902, B. Ph., Norwalk, O.
- Clark, Alexander B., A. B. (Yale University), 1899, LL. B., Canton.
- Clark, Clarence J., 1899, C. E., draftsman, engineer's office, City Hall, Columbus.
- Clark, Herman Alfred, 1902, B. Sc. (H. and F.), U. S. Bureau of Soils, Department of Agriculture, tobacco expert, Germantown, O.
- Clark, Thomas Walter, 1904, E. M., (Cer.), Columbus, 85 West Ninth avenue.
- Clarke, James Ulrick, 1902, M. E., Lancaster, O., superintendent Lancaster Traction Company.
- Clawson, Clarence Alfred, 1899, B. Sc. (Agr.), 1900, D. V. M., assistant inspector, B. of A. T., U. S. Department of Agriculture, Trinidad, Col., Box 525.
- Clawson, Lucy Blanche, 1903, B. Sc. (Dom. Sci.), Saginaw, Mich., 522 Mackinaw street, instructor in Dom. Sci.
- Clay, Albert Arlington, 1893, LL. B. (B. A., Tri-State Normal College), Hicksville.
- Claypoole, Beasie Smith, 1895, B. Ph., Columbus, Neil avenue.
- Claypoole, Charlotte Lake, 1892, B. Ph., Columbus, Neil avenue, teacher in North High School.
- Clements, Frank Orville, 1899, M. Sc. (M. A., Otterbein University), Omaha, Neb., Asst., Chemist, Union Pacific R. R.
- Clements, Jerry Riley, 1904, B. A., Waverly, O.
- Clevenger, Charles Henry, 1902, B. Sc., Springfield, Mo., 1205 Benton avenue, Acting Professor of Math. and Physics, Drury College.
- Clevenger, Joseph Franklin, 1903, B. Sc., Fletcher.
- Clum, George V., 1893, B. A., Earlville, Ill.
- Clum, Harry Ernest, 1899, B. Ph., 1901, LL. B., Columbus, 83 West Third avenue, Law and Real Estate.
- Coates, Elmer William, 1904, B. A., Pomeroy, O.
- Cockerill, Orville Porter, 1902, B. Ph., teacher of science, High School, Washington C. H.
- Cockins, Edith D., 1894, B. A., Columbus, 1348 Neil avenue, registrar, State University.

*Dead.

- Cockley, William Barney, 1904, B. A., Ironwood, Mich., High School teacher.
- Coddington, Edwin F., 1896, C. E., 1897, M. Sc., Ph. D., 1902 (University of Berlin). Columbus, 39 West Eleventh avenue, Assistant Professor of Mathematics, O. S. U.
- Cole, George Nathan, 1891, M. E. in EE., 265 Broadway, New York, contractor railroad supplies.
- Cole, Marietta C., 1897, B. Ph., Columbus, South Eighteenth street.
- Collins, Curtis, 1895, M. E. in EE., Consulting Engineer and EE. for S. A. Luz Electrica & Rio Plata Electric Co., San Juan, Puerto Rico. Box No. 244.
- *Collins, Walter Scott, 1901, B. A., died—1902.
- Cone, John Charles, 1903, B. Ph., Hamilton, O., teacher in High School.
- *Coney, William Hawks, 1894, B. Sc., died March 26, 1904 in Honolulu.
- Conley, Clyde Grayson, 1902, C. E., Mt. Vernon, O., draftsman, Mt. Vernon Bridge Co.
- Connell, Laura Jewell, 1896, B. Ph., Columbus, teacher of German, 433½ Long street.
- Connell, William A., 1886, E. M., Kansas City, Mo., Medical College.
- Connolley, Augusta, 1902, B. Ph., Sioux City, Iowa, teacher in High School.
- Connor, Alice M., 1900, B. Ph., Columbus, 44 McMillan avenue.
- Connor, Ellen J., 1900, B. Ph., 1901, M. A., Columbus, 44 McMillan avenue.
- Conrad, Louis Verne, 1902, C. E., P. C. C. & St. L. Ry., assistant on Engineer Corps, Xenia, O.
- Conradi, Albert Frederick, 1901, B. Sc. (Agr.), College Station, Texas, Assistant in Entomology, State Agricultural College.
- Converse, Edward Jasper, 1886, B. A. (B. D., Yale University), Columbus, assistant pastor, First Congregational Church, 59 West Fourth avenue.
- Converse, Howard Pendleton, 1887, B. Sc., Boston, Mass., 8 Oliver street. "H. P. Converse & Co."—Contractors & Engineers, Iron & Steel.
- Converse, Walter, 1899, B. A., Plain City.
- Conway, Hugh Lawrence, 1896, C. E., Ass't. City Engineer, City Hall, Cincinnati, 524 East Fourth street.
- Cook, George Edward, 1903, D. V. M., Tedrow.
- Cook, Melville T., M. A., (De Pauw Univ.), 1904, Ph. D., Greencastle, Ind.
- Cook, Spencer Nye, 1903, E. M., Chillicothe.
- Coover, Winifred Forest, B. A. (Otterbein University), 1903, M. A., Piqua, O., Instructor in Sciences, High School.
- Cope, Albert N., 1897, M. E. in EE., Columbus, assistant engineer construction, Columbus Street R. R.
- Corkery, Thomas Jefferson, 1904, LL. B., Toledo, O.
- Corner, Edith Carlisle, 1901, B. Ph., Columbus, 642 East Rich street.
- Corner, Florence, 1897, B. Ph. (Mrs. Albert Sellenings), New York City, 102 East Thirty-first street.
- Corns, Harry, 1887, B. A., Columbus, teacher in Central High School, West Woodruff avenue.
- Corwin, Edwin E., 1880, B. A., Columbus, attorney-at-law, 1462 Neil avenue.
- Cosley, Harvey Harter, 1901, C. E., Illinois Steel Co., Draftsman at North Works, Chicago, Ill., 501 LaSalle avenue.
- Cotes, Albert E., 1897, B. Sc., Selma, O., physician.
- Coulter, Leonard B., 1904, E. M. (Cer.), Oxford, O.
- Coursault, Ida May, 1899, B. Ph., Columbus, 770 East Long street.
- Coursault, Jesse H., 1893, B. A., 1898, M. A., 527 West 124th street, New York City, graduate student, Columbia University.
- Courtright, Elizabeth Pauline, 1901, B. A., (Mrs. Frank S. Knox), San Toy, (near Corning), O.
- Courtright, J. Loring, 1900, B. A., M. D. (Starling Medical College, 1903.)
- Courtright, Stella Van, 1901, B. Ph., Columbus, 1592 East Broad street.
- Covell, Vernon Royce, 1895, C. E., Wilkinsburg, Pa., Supt. Penn. Heat & Power Co.
- Coy, William Stacey, 1903, B. A., Reynoldsburg, O., Principal High School.
- Crabb, James Byrl, 1903, B. Sc. (Agr.), Washington, C. H., farmer, R. F. D., No. 5.
- Crable, Arthur, 1901, C. E., Cleveland, O., 811 Garfield Bldg., Maintenance of Way Department, Erie Ry. Co.
- *Crable, George, E. M., 1902, Columbus, O.—died August, 1902.

*Dead.

- Craig, Moses, 1889, B. Sc. (M. S., Cornell University, 1890), 1896, M. Sc. (H. F.), Mason College, Mason, Iowa.
- Cratty, John Mason, 1897, B. Sc., Norfolk, W. Va. Chemist, U. S. Navy Yard.
- Crawford, Mary B., 1901, B. Sc. (Dom. Sci.), Industrial, W. Va., teacher in Girl's Industrial Home.
- Crawford, Ira Jr., 1893, LL. B. (B. S., Dennison University), Dayton.
- Crawford, William Sterling, 1888, B. Ph.
- Crocker, Theodore Doane, 1904, M. E. in EE., Cleveland, O.
- Croll, Alfred J. (A. B., Ohio Normal University), 1900, LL. B., Toledo, O.
- Cromley, Alva M., 1897, G. Ph., Long street and Washington avenue, Columbus, Pharmacist, Columbian Drug Store.
- Crooks, Charles Melvis, 1892, B. A. (B. D., Harvard University, 1896), Colerain, Mass., pastor Congregational church.
- Crooks, Thomas E., 1904, M. E., Van Wert, O.
- Crout, Ray Durand, 1904, B. A., Columbus, 173 West Lane avenue.
- Crowner, Delbert Alonzo, 1896, B. Sc. (Agr.), Instructor in Buttermaking, Ohio State University, West Jefferson, proprietor Crowner Dairy Co.
- Cummings, May, B. A., (Antioch College), 1904, M. A., Xenia, O.
- Cummins, Henry Rollins, 1891, G. Ph., pharmacist Lake View Hospital, Cleveland O.
- Cunningham, Arthur, 1880, B. A., book-keeper.
- Cunningham, Charles Gilman, 1901, B. Ph., Toledo.
- Cunningham, Edward Walker, 1894, C. E., Pittsburg Bridge Works, Pittsburg, Pa., 231 Mathilda street.
- Cunningham, George S., 1886, B. Ph., LL. B., Lancaster, Attorney-at-law.
- Cunningham, John Ferguson, 1897, B. Sc. (H. & F.), 1899, M. Sc. (H. & F.), Cleveland, editor "Ohio Farmer." 366 Marce street.
- Curran, Bernard Franklin, LL. B., 1901, 15 North Fourth street, Zanesville.
- Curtis, Curtis Cicero, 1902, LL. B., Columbus, O.
- Curtis, Leigh Goodrich, 1899, C. E., Division Engineer of B. & O. R. R., Chicago, Ill., in care of B. & O. Ry., Engs. office.

D.

- Daily, Henry G., 1892, D. V. M., Wooster, veterinary surgeon.
- Dally, John Randolph, 1899, LL. B., Centerburg.
- Damron, Carson W., 1897, M. E., Pittsburg, Pa., 7407 Race street, engineer with Heyl & Patterson, Contracting Engineers.
- Daniels, David Edwin, 1893, LL. B., B. Ph., Denison University, 1896, LL. M., Columbus, 1326 Madison avenue.
- Dann, Walter M., 1902, M. E., Westinghouse E. & M. Co., Wilkinsburg, Pa., 1106 Center street.
- Darby, Roscoe B., 1900, LL. B., Wauseon.
- Davenport, Adrian E., 1897, B. A., Columbus, 211 Wyandotte Building.
- Davidson, David Millen, 1894, B. A., attorney, New York City.
- Davidson, George Edwin, 1899, LL. B., East Liverpool, O., attorney.
- Davidson, Ruth Emily, 1903, B. Ph., Muskegon, Mich., teacher, High School.
- Davies, Jennie C., 1897, B. Ph., Columbus, 590 East Spring street.
- Davies, John Lodwick, 1894, LL. B., Columbus, 324-5-6 Hayden-Clinton Bank Building, attorney.
- Davis, Charles William, 1894, E. M., Colorado Springs, Col., care J. Mck. Ferridy & Co., general mining business.
- Davis, Franklin Levi, 1904, B. A., Columbus, 38 West Eighth avenue.
- Davis, Oscar Allen, 1897, M. E. in EE., Alliance, Mechanical Engineer, The Reeves Bros. Co., 771 S. Arch street.
- Davis, Vernon Hayes, 1900, B. Sc. (Agr.), M. S. A. (Cornell, 1901), Columbus, Assistant Professor of Horticulture and Forestry, State University.
- Davis, William Edgar, 1904, B. A., Columbus, 38 West Eighth avenue.
- Day, Albert Edward, 1902, B. Sc., Mt. Carmel, O. Dairy Farmer.
- Deahl, Walter Smith, 1896, C. E., 331 Lake street, Pittsburg, Pa., Pittsburg Bridge Co., Draftsman, Bridge Department Bureau of Construction, City Hall.
- Deardurff, Carl Mason, 1895, B. A.

- DeLamater, Clayton William, 1884, A. B., LL. B., Omaha, Neb., attorney-at-law.
- DeLoffre, Andre, 1896, M. E. in EE., London, Eng., General Electric Co., of Schnectady N. Y.
- DeLoffre, Samuel Middleton, 1895, B. A. 1st Lt. and Asst. Surg., U. S. A., Fort Assinniboine, Mon.
- Demorest, Ralph H., 1904, B. Sc., teacher in High School, Greenville, Ohio.
- Dennis, Jerry, 1892, LL. B., 1893, LL. M., B. Sc. (National Normal), Columbus, attorney-at-law, 690 Franklin avenue.
- Denny, Charles Wampler, 1901, M. E. in EE., New York, N. Y., 378 West End avenue. Experimental Work. Cooper-Hewitt Electrical Co.
- Derby, Alice Greenwood, 1901, B. Ph., Columbus, 93 East Fifteenth avenue.
- Derby, Florence Harlow, 1896, B. Ph., 1901, B. Sc. (Dom. Sci.), (Mrs. Charles E. Haigler), Houghton, Mich.
- Detmers, Frederica, 1887, B. Sc., 1891, M. Sc., 1315 Neil avenue, Columbus, teacher.
- Devol, William Stowe, 1886, B. Agr., Opalika, Alabama.
- De Wolf, Roger Dennison, 1901, M. E. in EE., Westinghouse Electric Co., 508 Rebecca street, Wilksburg, Pa.
- Dice, Jesse Peck, 1898, LL. B., Akron.
- Dickinson, George Codwice, 1901, B. A., care of Rev. J. C. Dickinson, London.
- Dickinson, Thomas Herbert, 1899, B. Ph., Madison, Wis., English Department. University of Wisconsin.
- Diemer, Hugo, 1896, M. E. in EE., Cincinnati, O., consulting engineer.
- Dietrich, Charles Henry, 1878, B. Sc., Hopkinsville, Ky., American Book Company.
- Dietrich, George C., 1898, B. Ph., Sandusky, Principal of High School.
- Dill, Dille Augusta, 1900, B. Ph., Columbus.
- Dill, Raymond, 1901, M. E. in EE., Westinghouse Electric & Mfg. Co., Wilksburg, Pa., 923 South street.
- Dillin, Ernest Stewart, 1904, B. A., Coshocton, O.
- Dilts, Charles Ray, 1904, D. V. M., Thornville, O.
- Ditto, Theodore Walter, 1903, B. Sc. (Agr.), Elida, O., Cashier of Farmer's Bank.
- Doan, Frank C., 1898, B. Ph., Athens, Professor of Philosophy, Ohio University.
- Dock, Norton, 1903, D. V. M., Cincinnati.
- Dollison, Harvey C., 1900, B. Sc., Columbus, student, Starling Medical College, 191 West Eighth avenue.
- Dolson, Benjamin Reinmund, 1903, B. Ph., Lancaster.
- Doney, Carl Gregg, 1891, B. Sc., 1893, LL. B., Ph. D., 1902, Columbus, pastor King Ave. M. E. Church, 388 West Sixth avenue.
- Donham, Maurice, 1896, M. E., Warren, Pa., General Manager Jacobson Machine Manufacturing Co.
- *Donham, William W., 1882, B. Sc., died Feb. 10, 1898.
- Donavin, Dennis Aloysius, 1902, B. Ph., Columbus, O.
- Dorsey, Walter Alfred, 1904, M. E., Newark, O.
- Doty, Boyd Patterson, 1903, LL. B., Columbus, traveling for Anti-Saloon League.
- Doty, Oliver Perry, Jr., 1904, E. M., Hanging Rock, O.
- Doud, Harry Lee, 1901, LL. B., 1903, LL. M., Columbus, 837 Dennison avenue, attorney.
- Dowd, Charles F., 1900, B. Ph., Toledo, 1028 Virginia street.
- Dresbach, Mary, 1901, B. Sc. (Dom. Sci.), Columbus, (Mrs. Joseph Clevenger).
- Dresbach, Melvin, 1897, B. Sc., Columbus, 236 West Eighth avenue, Instructor in Anatomy and Physiology, O. S. U.
- Drummond, William G., 1900, M. E., Bryan, Texas, Assistant Professor of Mechanical Engineering, A. & M. College of Texas.
- Du Bois, David Douglass, B. S. (Muskingum College), 1903, LL. B., Bellaire.
- Dubois, Wilbur L., 1900, B. Sc., 1902, M. A., chemist in the Bureau of Chemistry, Washington, D. C., 1213 Q street, N. W.
- Dun, George William, 1884, B. Sc., Columbus, business manager "Columbus Citizen."
- Dun, John J., 1883, E. M., 289 East Fifteenth ave., Columbus, N. W. corner Gay and High. Real estate.
- *Dun, Walter Angus, 1878, B. Sc., M. D., died November 7, 1887.

*Dead.

- Dungan, Irvine Laird, 1892, B. Ph., Cincinnati, Lane Theological Seminary.
 Dunlap, Thaddeus Cox, 1895, M. E. in EE., manager Columbus Pneumatic Tool Co., Columbus, O., 651 Franklin avenue.
 Dunlap, William Renick, 1895, B. Sc., Kingston, farmer.
 Dunlap, Robert R., 1900, M. E. in EE., Columbus, O., 272 North Seventeenth street. Elect. Eng'r. Jeffrey Mfg. Co.
 Dunnick, Edward, 1897, C. E., draftsman, Mt. Vernon Bridge Co., Mt. Vernon, O.
 Durbin, Samuel Clyde, 1901, B. Ph., New Cumberland, W. Va., Principal of Schools.
 Duval, Joseph W. T., 1897, B. Sc., Washington, D. C., U. S. Department of Agriculture.
 Dupuy, Benjamin Francis, 1904, C. E., Ironton, O.
 Dye, Clair Albert, 1891, G. Ph., Assistant Professor of Pharmacy, State University, Columbus, Worthington, near Tenth avenue.
 Dyer, Werter Clarkson, 1903, B. A., Richwood, O., Principal High School.

E.

- Eagleson, Grace, 1897, B. Ph., Columbus, 84 North Ohio avenue.
 Eagleson, John H., 1900, B. A., LL. B., 1904, Columbus, 84 North Ohio avenue.
 Eagleson, Joseph P., 1900, B. A., LL. B., 1903, Columbus, 84 North Ohio avenue.
 Early, Franklin E., 1893, D. V. M.
 Early, Katharine Bell, 1904, B. A., Columbus, 108 North Twentieth street.
 Easterday, Charles Todd, 1891, G. Ph., Wellston, O., Traveling Representative of Parke, Davis & Co., Detroit, Mich.
 Eastman, Katherine, 1903, B. Ph., Columbus.
 Easton, Ernest Doane, 1902, B. Sc., Louisville, Ky., teacher, Louisville Male High School.
 Echols, Lenore Carrel, 1904, B. A., Columbus, 61 West Tenth avenue.
 Eckhardt, Carl Conrad, 1902, B. Ph., Columbia, Mo., Assistant in History, University of Missouri.
 Eddy, William, 1900, D. V. M., Cleveland, Ohio, 1275 Euclid avenue.
 Edwards, Mary Winifreda, 1897, B. A., Columbus, 73 North Twenty-First street.
 Egbert, Knott C., 1890, B. Agr., M. S. (Cornell, 1901), Yainax, Oregon, Superintendent Indian School.
 Eisenbise, Bertha, 1900, B. Ph., Columbus, 134 North Monroe avenue.
 Eisenlohr, Berthold A., 1898, B. Ph., Instructor in German Language and Literature, Ohio State University, Columbus, University grounds.
 Ellis, Charles, 1889, D. V. M., St. Louis, Mo., veterinarian to Board of Health, 4159 Laclede avenue.
 Emery, Peyton Randolph, 1893, LL. B., London, attorney, 1402 South Fifth avenue.
 Emery, Vernon Judson, 1887, B. A. (A. M., University of Nebraska), Minneapolis, Minn., Field Agent, Unitarian Society.
 Emswiler, John Edward, 1903, M. E., Schenectady, N. Y., 1508 Union street, General Electric Co., Steam Turbine Dept.
 Erb, Theresa, 1904, B. A., Columbus, 116 West Ninth avenue.
 Erf, Oscar, 1899, B. Sc. (Agr.), Manhattan, Kansas, Professor in Kansas State Agricultural College.
 Erkskine, John H., 1886, E. M., M. D., physician and surgeon, Albany, Oregon.
 Estep, Frank Leslie, 1898, M. E. in EE., foreman Copper Rolling Mill Bridgeport Brass Co., Bridgeport, Conn.
 Evans, Ernest, 1892, B. Sc., Zanesville, O., Carnagle Steel Co.
 Evans, Lyle Sanford, A. B. (Miami University), LL. B., 1901, Chillicothe, O.
 Evans, Peter Platter, 1892, C. E., contracting engineer, The Osborn Engineering Co., Osborn Bldg., Cleveland, O.
 Evans, Thomas Daniel, 1902, LL. B., New York City. Student in Dramatic School.
 Evans, William Lloyd, 1892, B. Sc., 1896, M. Sc., Chicago, Ill., Fellow in Chemistry and graduate student University of Chicago.
 Ewalt, Clara Converse, 1901, B. Ph., 1903, M. A., Marion, O., teacher, High school.
 Eysenbach, Ernest E., 1896, E. M., St. Paul, Minnesota, Supt. St. Paul Gas Light Co.

*Eysenbach, Louis, 1903, C. E., died January 20th, 1904.

F.

- Fairchild, Harmon Scott, 1894, LL. B., Springfield, O., 392 West Seventh ave.
 Farber, Charles Harker, 1894, B. A., Columbus, with State Savings Association.
 Fassig, Oliver L., 1882, B. Sc., Ph. D., (Johns Hopkins University), Baltimore, Md., Associate Professor of Meteorology, Johns Hopkins University.
 *Fay, Frederick Willis, 1882, B. A., B. Arch., died August, 1892.
 Fay, Mona, 1897, B. Ph. (Mrs. Eugene Gee), Seattle, Wash.
 Feicht, Edward Rall, 1904, M. E., Dayton, Ohio.
 Feicht, Russell Stimson, 1890, M. E. in EE., Engineering Department Westinghouse E. & M. Co., Pittsburg, Pa., 5821 Rural avenue.
 Feiel, Ida-Louise, 1898, B. Ph., Columbus, 520 East Main street.
 Fenner, Jesse Albertus, A. B. (Wittenberg College), 1898, LL. B., Cleveland, O., 100 Hough avenue.
 Fergus, Guy Carlton, 1898, M. E. in EE., partner in Zanesville Electrical Co., Zanesville, Ohio.
 Fergus, John Franklin, 1892, LL. B., Columbus, attorney-at-law, Sixth avenue.
 Ferguson, Ollie Wayman, 1903, B. Sc. (Agr.), Columbus, Graduate Student in Agr., O. S. U.
 Fickes, Walter M., 1900, E. M. (Ceramics), manager Rosslyn Brick Co., Carnegie, Pa.
 Finley, Harry Marshall, 1894, B. A., McConnellsville, attorney-at-law.
 Fippin, Elmer Otterbein, B. Sc. (Agr.), Washington, D. C., Department of Agriculture, Bureau of Soils, Field Assistant in U. S. Soil Survey.
 Fischer, Paul, 1891, B. Agr., D. V. M., Columbus, O., Station "A," R. F. D., No. 2, State Veterinarian.
 Fischer, Robert, 1895, G. Ph., 1896, M. Ph., 1898, B. Sc., St. Louis, Mo., Instructor in Chemistry, St. Louis High School, 3437 Morgan street.
 Fischer, Walter, B. Sc.
 Fish, Fred Alan, 1898, M. E. in EE., Assistant Professor Electrical Engineering, State University, Columbus, 241 West Fourth avenue.
 Fisher, Clara, 1896, B. A. (Mrs. J. Porter Milligan), Columbus, 1108 Dennison avenue, teacher of Latin, North High School.
 Fisher, Georgietta, 1895, B. A., Columbus, (Mrs. Cassius C. Corner), 642 East Rich street.
 Fisher, Ida May, 1900, B. Ph., Columbus, East Rich street, O. S. U. library.
 Fitzgibbon, James Robert, 1894, LL. B., B. L. (Notre Dame), Newark.
 Fitterer, John Conrad, 1898, B. Sc., Bucyrus.
 Flickinger, George A., 1898, B. Sc. (Agr.), Knoxville, Tenn., R. F. D., No. 7, Dairy Farmer and Gardener.
 Floto, Julius, 1889, E. M., St. Louis Mo., 909 Euclid avenue. Agent Brown-Ketcham Iron Works of Indianapolis, Indiana.
 *Flynn, Benjamin H., 1898, C. E., died March 1st, 1903.
 Flynn, Harry Franklin, 1892, C. E., Washington, D. C., U. S. Geodetic and Coast Survey.
 Flynn, Maud, 1896, B. Sc., Columbus, West Sixth avenue, Science Teacher in High School.
 Flynn, Oscar Rodgers, 1896, B. Sc., 5527 Jackson avenue, Chicago, Ill., Teacher of Chemistry in Hyde Park High School.
 Foley, William J., 1894, D. V. M., Lexington, Ky.
 Follin, Florin Atwood, 1894, LL. B., Darlington, O.
 Ford, Nile Otis, A. B., M. Sc. (Washington and Jefferson), 1901, E. M., New York City.
 Ford, Ruth L., 1898, B. A. (Mrs. Lorenzo Carlisle), Ashtabula, O.
 Ford, Stanley Hamer, 1898, B. Ph., First Lieutenant in U. S. Army, Fort Reno, Oklahoma.
 *Forgy, Ralph Morris, 1896, B. Ph., died March, 1899.
 Foster, Dudley Hampton, 1895, B. Ph., LL. B., attorney-at-law, Corning.
 Foster, Frank McMillan, 1894, M. E. in EE., Cincinnati, O., 805 Mt. Hope avenue, Price Hill, Secretary and Treasurer American Valve & Meter Co., 1125 Gest street.

*Dead.

- Foster, Israel Moore, 1898, LL. B., B. Ph. (Ohio University), Athens, 7 Mulberry street.
- Foster, Ralph Akin, 1904, B. A., Columbus, 300 West Sixth avenue.
- Foster, Vauss, 1903, E. M., Gary, McDowell Co., W. Va., in care of U. S. Coal & Coke Co.
- Foulk, Charles William, 1894, B. A., Associate Professor Chemistry, State University, Columbus, 1656 Neil avenue.
- Fowler, Harry R., 1894, M. E. in EE., Toledo, electrical contractor.
- Fox, Charles P., 1890, B. Agr., 1895, M. Agr., Diamond Rubber Co., Akron, O., 395 Doyle street.
- Fox, Frederick Hugh, 1896, B. Ph., McConnellsville.
- Fox, John Herbert, 1897, M. E., Cleveland, 100 Hough avenue, Brown Hoisting Machine Co., mechanical engineer.
- Fox, Ross G., 1900, B. Ph., Columbus, 983 North High street.
- Frame, Rollo St. Clair, 1901, C. E., Silver City, Mexico, civil engineer.
- Francis, Edward, 1894, B. Sc., M. D. (Ohio Medical College), Washington, D. C., U. S. Public Health and Marine Hospital Service.
- Francis, Mark, 1887, D. V. M., College Station, Brazos Co., Tex., professor of Veterinary Medicine, Agricultural and Mechanical College.
- Frankenberg, George Theodore, 1902, M. E., Columbus, O., 310 East Rich street, assistant master mechanic of Columbus Iron & Steel Co.
- Frakenberg, John Theodore, 1899, M. E. in EE., Columbus, 871 Neil avenue, Central Union Telephone Co.
- Frankham, Charles R., B. A. (Otterbein University), 1903, M. A., 1904, LL. B., Columbus, West Eleventh avenue.
- Fravel, George B., 1888, M. E., Chicago, Ill., master mechanic, Chicago Terminal Division.
- Fraye, Lee Ambrose, 1896, M. E., Columbus, with Oscar Lear, East Gay street.
- Frechtling, Arthur George Richter, 1901, M. E., Union Pacific Ry., Portland, Maine.
- Freeman, Stanton Sholes, 1898, E. M., superintendent St. Carbon Iron and Steel Co., Parryville, Pa.
- French, Thomas Ewing, 1895, M. E., Columbus, associate professor of architecture and drawing, State University, 1458 Worthington street.
- Freshour, William McDowell, B. A., 1899, M. A. (1903), (Wittenberg College), 1903, LL. B., Piqua, O., attorney, "Freshour & Freshour"
- Fritchle, Oliver Parker, 1896, B. Sc., Mt. Hope.
- Frost, George W., 1900, M. E., Columbus, 241 Buttles avenue, sales manager, Columbus Storage Battery Co.
- Fuller, Charles William, 1904, E. M., North Madison, O.
- Fullmer, Edward L., 1897, B. Sc., 1898, M. Sc., Mitchell, S. D., University of South Dakota, professor of sciences.
- Fullerton, Charles Haywood, 1898, B. Ph., Columbus, teacher in High School.
- Funes, Thomas S., 1904, Buenos Ayres, Arg. Rep.
- Funk, Roy William, 1902, B. Sc., Chesterhill, O.

G.

- Gains, Charles E., 1889, B. Ph., London, physician.
- Galbraith, John Howard, 1883, B. Ph., Columbus journalist, 1087, Oak street.
- Gale, Cora C., 1893, B. Ph., Columbus, (Mrs. C. R. Roof), Columbus, the "Del Monte," Cor. Mound and Third streets.
- Gale, Franklin Henry, 1893, LL.M., (LL. B., University of Michigan.) Columbus, 324 Oak street, attorney.
- Gallen, William Francis, 1897, M. E., Columbus, Case Manufacturing Co., foreman drafting room, 657 Hamlet street.
- Game, Francis Harvey, 1904, LL. B., Canal Winchester, O.
- Game, Reed Haskell, 1896, B. Ph., 1899, LL. B., Columbus, 531 East Broad street, attorney.
- Gamper, Hedwig E., 1900, B. Ph., Columbus, Fifth avenue, near H. V. Ry.
- Gamper, Herman, 1899, M. E., Electrical Engineer, O. S. & S. O. Home, Xenia, Ohio.
- Gauch, James Orlando, 1902, B. A., 1903, M. A., Groveport, O., Superintendent of Public School.
- Gayman, Charles W., 1900, B. Ph., M. A., Harvard 1904, Sub. Principal, English High School, Lynn, Mass.

- Garber, Alberta D., 1889, B. Ph., A. M., (Mrs. Alva R. Scott), Colorado Springs, Colorado, 117 North Nevada avenue.
- Garber, John Murray, 1897, C. E., draftsman, Mt. Vernon Bridge Co., Mt. Vernon.
- Garber, Levi L., 1898, B. A., Ashland, O., Head of Department of English, Ashland College.
- Gardner, Frank Williams, 1904, B. A., London, O.
- Garman, Susan Editha, 1903, B. Ph., Mansfield, O., 548 Park avenue, west, teacher of English, High School.
- *Garst, William Augustus, A. B. (Otterbein University and Harvard University), 1898, LL. B., died April, 1903.
- Gee, Eugene C., 1897, M. E. in EE., Special, Bell Telephone Co., Seattle, Wash.
- Gehrken, Edward Frederick, 1894, M. E. in EE., Shenectady, N. Y., with General Electric Co.
- Geissinger, James Allen, 1895, B. A., Cincinnati, O., 249 Albin Place, pastor, Mt. Auburn M. E. Church.
- Genheimer, Eli Thomas, 1896, B. Ph., Claude, Texas, teacher.
- Genheimer, William F., 1897, LL. B., Wheelersburg, O.
- Gibbs, George C., 1893, B. A., New Straitsville, O., coal operator.
- Gilmore, William Henry, 1899, B. Sc. (Agr.), Stock Farmer, Basil, Ohio.
- Given, James Byron, 1896, M. E. in EE., Western Electric Co., Chicago, Ill.
- Givens, Newton Edgar, A. B., (National Normal Univ.) 1896, LL. B., Columbus, W. Frambes avenue.
- Glass, Melle Wilson, 1904, B. A., Columbus, 597 Franklin avenue.
- Glover, Sioux, 1882, B. Sc. (Mrs. Horton), Errid, Pa.
- Goddard, Loring Hapgood, 1892, C. E., farmer, Washington, C. H., R. F. D., No. 5.
- Gonsebatt, Luis, 1904, D. V. M., Entre Rios, Arg. Rep.
- Good, Paul Revere, 1899, B. A., 1900, M. A., Westerville.
- Goodell, Ralph Spencer, 1892, C. E., Mt. Vernon, assistant engineer Mt. Vernon Bridge Co.
- Goodman, Joseph Clarence, 1896, LL. M., Columbus, 540 Franklin avenue, merchant.
- Goodman, Sylvester Jacob, 1896, G. Ph., M. D. (W. & J. Medical College, 1900), Physician, Columbus, 238 State street.
- Gordon, Adelaide Cummins, 1896, B. Ph., Columbus.
- Gordon, Sarah Bryarly, 1902, B. Ph., St. Mary's, (Mrs. Frank Shuffelton.)
- Gores, John Wesley, 1898, C. E., Boomer, W. Va., Mining Engineer for Boomer Coal Co.
- Gould, William Stewart, 1904, M. E., Wyoming, O.
- Gorham, Ira Garfield, 1904, B. A., Perrysville, O.
- Graham, Emery Eugene, 1898, M. E. in EE., draftsman, Wellman-Seaver-Morgan Engineering Co., Cleveland, O.
- Graham, Reuben Jacob, 1901, B. Ph., teacher in High School, Chillicothe, O.
- Grandle, Frank Albert, 1891, G. Ph., Centerburg, pharmacist.
- Graner, Carl, 1898, G. Ph., Philippine Islands, hospital steward, U. S. Army.
- Grant, Ruth Matilda, 1904, B. A., Columbus, 36 East Fifth street.
- Grate, Charles Artemis, 1898, M. E., Aultman Co., Akron, O.
- Graves, William L., 1893, B. A., 1897, M. A., Assistant Professor of Rhetoric and English Language, State University, Columbus, 1313 Forsythe avenue.
- Gray, Genevieve, 1898, B. Ph. (Mrs. Levi Rawson), Sistersville, W. Va.
- Gray, James Collam, 1892, LL. B., 1893, LL. M.
- Graven, D. Homer, (A. B., Ohio Normal University), 1900, LL. B., Columbus, O., 200 Wyandotte.
- Green, Charles C., 1885, B. Sc., M. D., Beaver City, Neb., physician.
- Green, Jerome Joseph, 1893, M. E. in EE., Notre Dame, Ind., Notre Dame University, Professor of Physics and Elec. Engineering.
- Green, Joseph Faust, 1899, M. E. in EE., Moline, Ill., electrical engineer, Moline Electric Elevator Co.
- Green, Robert Lee, 1892, G. Ph., Notre Dame, Indiana, professor of Pharmacy, Notre Dame Univ.
- Greener, Gussie Howe, 1901, B. Ph., Delavan, Wisconsin, teacher.
- Greenwood, Helen Tuttle, 1904, B. A., Columbus, 200 Garfield avenue.
- Gregg, Frank B., 1889, B. Ph., M. D., Wellington, O.

*Dead.

- Gregory, Hiram D., 1880, E. M., attorney-at-law, office rooms Nos. 6 and 7 Bradford Bldg., Covington, Ky.
- Griffin, Mark H., 1897, M. E. in EE., Toledo, O., Spitzer Bldg., administrator estate of Chas. P. Griffin, and Life Insurance.
- Griffin, Theodore L., 1889, B. Sc., M. Sc., Columbus, with the D. C. Beggs Co., 760 Mt. Vernon avenue.
- Griffith, David Mathias, 1896, LL. B., Kecksburg, Pa.
- Griffith, Wellington John, 1892, LL. B., A. B. (De Pauw Univ.), Tiffin.
- Griffiths, Benjamin Lincoln, 1898, LL. B., Vaughnsville.
- Griggs, Robert Fiske, 1903, B. Sc., Fargo, North Dakota, Professor of Biology, Fargo College.
- Grimsley, George Perry, 1890, B. A., 1891, M. A. (Ph. D., Johns Hopkins University, 1894), Topeka, Kan., Secretary Kansas Academy of Science.
- Griswold, Lawrence William, 1892, B. A., 217 W. Twelfth street, New York City.
- Groff, Orsilla Ann, 1894, G. Ph., North High street, Columbus, Pharmacist.
- Groff, Warren Noble, 1896, B. A., 1899, LL. D., Kansas City, Missouri, 615 American Bank Bldg., attorney-at-law.
- Groves, John Wesley, 1898, C. E., Black Betsey, W. Va.
- Gruen, Francis William, 1899, B. Ph., 1899, LL. B., Dayton, O., 39 East Third street, cashier, First Savings and Banking Co.
- Guerin, Martha, 1896, B. Ph. (Mrs. Wallace S. Elden), Columbus, West Ninth avenue.
- Gugle, George Linville, 1896, LL. B., Columbus Guaranty Title Co., (325 West Sixth avenue.)
- Gugle, Marie, 1897, B. A., Toledo, O., teacher in High School. "The Latimer."
- Guitard, Claude Bernard, 1903, B. Ph., Washington, D. C., Congressional Library.
- Guitard, Virgil, 1894, B. Sc., Philippine Islands.
- Guitteau, William B., 1897, B. Ph., Toledo, O., teacher in High School.
- Guss, Sherman Hamlin, 1892, B. A., Clarksburg, W. Va., principal of the colored schools.
- Gwynne, Josiah Walker, 1904, M. E. in EE., Wellsburg, W. Va.

H.

- Haas, Frank, 1895, C. E., 1896, E. M., chemist, Fairmount Coal Co., Fairmount, W. Va.
- Haesler, Anna M., 1904, B. A., Springfield, O.
- Hagenbuch, George Edwin, 1903, B. Ph., Columbus student O. S. U. Law School.
- Hagler, Howard, 1889, B. Sc., Washington C. H., farmer.
- Haigler, Charles Edmund, 1898, B. Sc., Professor of Physics and Mathematics, Michigan School of Mines, Houghton, Mich.
- Hale, Frederick James, 1898, M. E., 1900, M. Sc., Westinghouse Machine Company, gas engine department, Pittsburg, Pa.
- Hall, Harry R., 1889, E. M., superintendent Blast Furnace, Lake Superior Power Company, Sault St. Marie, Ontario, Canada.
- Halterman, Oscar Elmore, 1895, LL. B., B. S. (National Normal University), Columbus, O., Deshler Block, 455 S. Champion avenue.
- Hambleton, Ethel Ada, 1901, B. Ph., Columbus, bookkeeper, Columbus Pharmaceutical Co.
- Hamilton, Charles R., 1893, B. A., Zanesville, 219 North Seventh street, Dun's Commercial Agency.
- Hamilton, Frank Alexander, 1895, D. V. M., Dubois, Pa., veterinary surgeon.
- Hamilton, Frank Edward, 1903, B. Sc. (Agr.), Brownsville, O.
- Hamilton, Ross Elroy, 1903, C. E., Coshocton.
- Hammond, Bessie B., 1897, B. Ph., Columbus, 443 Mt. Vernon avenue.
- Hammond, Harry J., 1900, D. V. M., Amadee, Cal., U. S. Inspector B. A. I.
- Hammond, John Miller, 1902, C. E., Cleveland, O., 91 Water street, assistant engineer C. C. C. & St. L. Ry.
- Hammond, Rose Lyttle, 1896, B. Ph., Columbus, teacher, 90 North Twenty-second street.
- Hance, Harry Thomas, 1901, B. Sc. (Chem.), Columbus, O., Chemist, Rarig Engineering Co.
- Hancock, Winfield Scott (A. B., Marietta), 1900, LL. B., Marietta, attorney.

- Hancock, David R., 1889, G. Ph., M. D., physician.
- Haney, Thomas Carlyle, 1894, G. Ph., Columbus, pharmacist, corner Schiller and Third streets.
- Hannum, William Hamilton, 1897, B. A., India, missionary.
- Hapgood, Eugene Palmer, 1902, B. Sc., New Lexington, O., Imperial Clay Co.
- Harbage, Arnett, 1893, D. V. M., London, O., R. F. D. No. 3, farmer.
- Hardy, Paul, 1904, E. M., Columbus, 46 South Sixth street.
- Harkins, Robert R., 1900, M. E., Columbus, 76 W. Woodruff avenue.
- Harlor, John David, 1895, B. A., Columbus, teacher in East High School, 1571 Franklin avenue.
- Harper, Ellahue A. (B. A., Ohio Wesleyan University), 1900, LL. B., M. E. Church, Dresden, Ohio.
- Harper, Merritt, 1901, B. Sc. (Agr.), M. Sc. (University of Illinois, 1902), Columbia, Mo., assistant animal husbandry, University of Missouri; special agent in plant and forage crop investigation for U. S. Department of Agriculture.
- Harrington, Evaline, B. Ph. (Wooster University), 1903, M. A. Columbus, 1330 Forsythe avenue.
- Harris, Charles Pearl, 1899, B. Ph., LL. B., (Yale 1904), West Liberty.
- Harris, Frank Laverne, 1894, LL. B. (Ph. B., Tri-State Normal University), Payne.
- Harris, Walter Conger, 1893, B. Sc., New York, with Art Department of "World," 1588 East Nineteenth street, Brooklyn, N. Y.
- Harrison, Warner, 1892, LL. B., 307 East Town street, Columbus, attorney and solicitor, C. A. & C. Railway.
- Harrison, William Henry, 1885, C. E., engineer Sierro De Pasco Ry., Oroya, Peru.
- Harrold, Ernst Ellwood, 1895, G. Ph., Milagros, New Mexico.
- Harrop, Carl Boileau, 1902, E. M., Bronson, Mich., chemist The Bronson Portland Cement Company.
- Harrop, Herbert Bailey, 1898, B. Sc., Columbus.
- Harshman, John Burnett, 1904, B. A., Alpha. O.
- Hartford, Martha Dudley, 1902, B. Ph., Columbus, O. S. U. Library.
- Hartsough, William H. Jr., 1898, B. Ph., Columbus, 1356 Hunter street, Hocking Valley Ry.
- Hartwell, Arthur, 1888, M. E., sales manager Westinghouse E. & M. Company, Pittsburg, Pa., 505 South Linden avenue.
- Hartwick, Louis M., 1897, M. E., master mechanic of blast furnace, Pueblo, Col., 217 Quincy street.
- Harvey, Arlington Corylle, 1896, B. Ph., 1897, M. A., 1899, LL. B., Columbus, teacher in North High School, 206 West First avenue.
- Harvey, Emery Wayland, 1896, B. Ph., Somerville, N. J., 201 East High street, New Jersey, Representative D. C. Heath & Co., 225 Fourth avenue, New York City.
- Harvey, Florence Danford, 1898, B. Ph. (Mrs. Frank P. Rogers), Columbus, 140 Warren street.
- Harvey, Sherman Lee, 1896, G. Ph., Columbus, druggist, East Main street.
- Harward, Arthur B., 1900, B. A., Columbus, 1173 Hunter street.
- Hassler, Robert Hanich, 1892, M. E. in EE., engineer International Motor Car Company, Indianapolis, Ind.
- Hastings, Edwin George, 1898, B. Sc., Madison, Wis., 209 Brook street, Bacteriologist in College of Agr., University of Wisconsin.
- Hatfield, Clifford Christian, 1904, B. Sc. (Agr.), Lebanon, O.
- Hauk, Will Comrie, 1901, B. A., South Charleston.
- Hay, Dwight G., 1903, LL. B., Wooster.
- Hayden, Cassius Clay, 1901, B. Sc. (Agr.), Urbana, Illinois, University of Illinois.
- Hayes, Seth, 1892, B. Sc., Lancaster, O., Principal Lancaster High School.
- Hayman, William C., 1900, M. E. in EE., Schenectady, N. Y., engineer, wire and cable department, General Electric Company.
- Hayward, George E., 1893, C. E., Bronson, Mich., general manager The Bronson Portland Cement Company.
- Hazleton, Bird, 1898, B. Ph., (Mrs. Geo. C. Gibbs), New Straitsville.
- Hazlett, Robert Jr., 1887, C. E., Wheeling, W. Va., 921 Main street, chief engineer, Pan Handle Traction Company, City Bank Building.

- Heacock, William Preston, 1898, LL. B., A. B. (Ohio Normal University), Columbus, Official Stenographer of Supreme Court.
- Heath, Arthur T., 1887, G. Ph., analytic chemist, consulting engineer and contractor, Ashtabula, O.
- Hebble, Charles Roy, 1896, M. E. in EE.
- Hedges, Harry, 1888, B. A.
- Heller, Albert Henry, 1890, C. E., Professor of Civil Engineering, Ohio State University, Columbus, O., 1249 Neil avenue.
- Helvey, George Stanley, 1903, M. E., Chicago, Ill.
- Henderson, Adelbert Andrew, 1898, C. E., transit man, county engineer office, Wilkinsburg, Pa.
- Henderson, Herbert Barr, 1904, B. Sc., (Phar.), Columbus, 1289 Forsythe ave.
- Hengst, James McCleery, 1904, B. A., Lancaster, O.
- Henretta, Charles Michael, 1896, E. M., mining engineer, Canadian Pacific Railroad, Calgary, Northwest Territory.
- Hensel, Donald Dean, 1902, B. Ph., Eaton, O.
- Herbert, Charles T., 1897, LL. B., Columbia, South America, Boca del Terra.
- Herma, Edith S., 1898, B. Ph., Portsmouth.
- Herrick, Louise, 1893, B. A. (Mrs. Harry Abbott), Columbus, 1454 Highland street.
- Herrick, Sara Ethel, 1902, B. Ph., (Mrs. King Thompson), Columbus, O., West Tenth avenue.
- Hershey, Harry Hartman (A. B., Mt. Union College), 1900, LL. B., Columbus, O.
- Hertner, John H., 1899, M. E. in EE., Hertner Electric Company, Cleveland, O., 14 Frankfort street.
- Hess, Florence Louise, 1895, B. Ph., (Mrs. D. W. Willison), Columbus, West Tenth avenue.
- Hewitt, Stafford Reaves, 1898, M. E. in EE., Columbus, "The Cumberland," with Kinnear Mfg. Co.
- Hiatt, William Arthur, 1895, B. Ph., Marietta, O., St. Clair Building, attorney-at-law.
- Hicks, Nellie Rogers, 1902 B. A., Centerburg, O.
- Higbee, Charles E., 1883, B. Sc.
- High, Odessa, 1896, B. A., (Mrs. Edward W. Johnson), West Jefferson.
- Hill, Cortland Latimer, Jr., 1903, C. E., Connellsville, Pa., Assistant on Engineering Corps, B. & O. R. R.
- Hill, Frank E., 1886, B. Sc., M. D., Muncie, Ind., Professor of Physiology and Hygiene, Palmer University.
- *Hill, I. F., Reynolds, 1896, B. Sc. (H. & F.), died winter of 1904.
- Hill, Mamie Faye, 1902, B. Sc., (Dom. Sci.), Columbus, O., 2160 North Fourth street, teacher of domestic science, "Columbus School of Cookery."
- Hine, James S., 1893, B. Sc., Columbus, Associate Professor of Entomology and Zoology, State University, 1340 Hunter street.
- Hine, Lucius A., 1888, E. M., 140 E. Fiftieth street, Chicago Ill., President and Treasurer Hine-Watt Manufacturing Company, 60 Wabash avenue.
- Hipple, John Merton, 1898, M. E. in EE., Westinghouse E. & M. Company, Wilkinsburg, Pa.
- Hirsch, Gustav, 1897, M. E. in EE., Lima, O., Chief Engineer and Vice President of Ideal Construction Co.
- Hirsch, Rudolph, 1901, B. Sc., assistant in agricultural chemistry, Ohio State University, Columbus, 1060 South Front street.
- Hirst, Anna Brewster, B. A. (Antioch College), 1900, M. A., Yellow Springs.
- Hirst, Harry, 1903, E. M., Dennison, O., Superintendent Dennison Mining Co.
- Hitch, James Franklin, 1902, C. E., Williamson, W. Va., Engineer for Ohio & Big Sandy Coal Co.
- Hite, Bertha, 1904, B. A., Columbus, 372 West Seventh avenue.
- Hite, Florence Elizabeth, 1904, C. E., (Arch.), Columbus, 372 West Seventh avenue.
- Hoel, Sarah Elizabeth, 1893, B. Sc. (Mrs. W. M. Mills), North Tonawanda, New York.
- Hoffhine, John, 1904, B. A., Columbus, 1448 Neil avenue.
- Hoffman, Arthur Sullivant, 1897, B. A., 23 West Twenty-First street, New York City, on "The Smart Set."
- Hoffman, George Thomas, 1904, B. A., Malta, O.

- Hoffman, Hattie DeLong, 1900, B. Ph., teacher public schools, Mansfield, O.
 Holbrook, George Frederick, 1902, E. M., San Bernardino, Cal., 595 D street.
 Holcomb, Harry John, 1901, B. A., Boston, Mass., 72 Mt. Vernon street, Boston University.
 Hollister, Ruth Amanda, 1904, B. Sc., (Dom Sci.), Gallon, O.
 Holloway, Thurman Welford, 1904, M. E., Zanesville, O.
 Holm, Robert Edwin, 1904, D. V. M., Welshfield, O.
 Holmes, William B. Gleason, 1904, B. A., Bellevue, Alleghany.
 Homan, Frank, 1895, C. E., Batavia, O., civil engineer.
 Hommon, Harry Britton, 1903, B. Ph., Columbus, teacher.
 Hood, Sherman, 1894, B. Sc., Mineral Ridge, O., market gardener.
 Hood, Willard J., 1904, M. E., Cambridge, O.
 Hoover, Clarence Boal, 1903, B. Sc. (Agr.), Ithaca, N. Y., Graduate student Cornell University.
 Hoover, Frederic Roland, 1899, B. Ph., Columbus, 271 South Ohio avenue.
 Hopkins, Bertha Marie, 1902, B. Ph., student, Oberlin College, Oberlin, Ohio.
 Hopkins, Charles Delnow, 1893, LL. B. (B. A., Ohio Wesleyan University), Athens, attorney.
 Hopkins, Clara Mae, 1902, B. Ph. (Mrs. William Snodgrass), Marysville, O.
 Hopkins, Edith Estelle, 1902, B. Ph., Neil avenue, near Tenth, Columbus.
 Horton, Henry Pomeroy, 1889, B. Ph.
 Hough, Benson Walker, 1899, LL. B., Delaware, attorney-at-law, city solicitor.
 Houghton, Henry Spencer, 1901, B. Ph., Baltimore, Md., medical student, Johns Hopkins University.
 Houle, Frank Gaydon, A. B., A. M. (Western Reserve), LL. B., Bellevue, O.
 Houseman, Ruth U., 1897, B. Ph., Painesville (Mrs. R. Belknap), 120 Bank street.
 Houston, Anna Christine, 1892, B. Ph., 1895, M. A., Marysville, teacher in High School.
 Hovey, Samuel Clark, B. A. (Buchtell College), 1898, LL. B.
 Howald, Ferdinand, 1878, B. Sc., 1881, E. M., Rush Run, W. Va., coal operator.
 Howard, A. B., 1883, B. Ph., New York City, 224 Waverly Place, clergyman.
 *Howard, Anna F., 1900, B. Ph., died January, 1901.
 Howard, Curtis C., 1878, B. Sc., M. Sc., 115 Jefferson avenue, Columbus, Professor of Chemistry in Starling Medical College.
 Howard, Fanny Fern, 1896, B. A. (Mrs. McDonald Mitchell), Charleston, Ill.
 Howard, Edward Davenport, 1894, LL. B., 1896, LL. M., Columbus, 307 West Seventh avenue, Secretary of State's Office, State House.
 Howard, John Wilnot, 1895, B. Sc., Pittsburg, Pa., Manager, Liability Department of Traveler's Insurance Co., 1317 Farmer's Bank Bldg.
 Howe, Roy Edwin, 1904, E. M., Lodi, O.
 Howells, E. S., 1884, E. M., general manager Howells & Jones Company, Birmingham, Ala., 2914 Juniper avenue.
 Howels, Thomas J., 1897, E. M., chemist, Pocahontas Coal Field for National Steel Company, Bluefield, W. Va.
 Hubbard, Ralph Newton, 1891, B. Sc., Columbus Machine Company, Columbus, 371 East Broad street.
 Huddleson, Don Carlos, 1897, G. Ph., Columbus, 891 Dennison avenue, instructor Physical Education, State University, student Starling Medical College.
 Huddleson, Frank Newton, 1902, E. M., Salt Lake City, Utah, M. of W. Dept., San Pedro, Los Angeles & Salt Lake R. R.
 Hudson, Clara Putnam, 1902, B. Ph., Columbus.
 Huffman, Lillian Stuart, 1899, B. Ph., Columbus, 389 East Rich street, O. S. U. Library.
 Huggins, Burch Delaplaine, 1899, B. Ph., attorney, Columbus, 88 Jefferson avenue.
 Hughes, Raymond Mollyneaux, A. B. (Miami University), 1897, M. Sc., Miami University, Professor of Chemistry, Oxford, Ohio.
 Huling, Frank, 1903, B. A., Columbus, 992 Oak street, student, O. S. U. Law School.
 Hull, Mary Louise, 1894, B. A. (Mrs. C. H. Farber), Columbus, 392 West Seventh avenue.
 Hull, Walter Austin, 1902, E. M., Bolivar, Pa., chemist, Reese-Hammond Fire Brick Company.

*Dead.

Humphrey, Harold Phelps, 1904, E. M. (Cer.), Elkland, Pa.
 Humphrey, J. Scott, 1879, B. Sc., Indianapolis, Ind., 1407 North Illinois street, Assistant City Civil Engineer.
 Humphreys, Leona, 1895, B. A.
 Hungelmann, Arthur, 1902, B. Sc., Birmingham, Alabama, chemist, Sloss, Sheffield Steel & Iron Co.
 Hunt, Mary Fulton, 1901, B. Ph., Columbus, 540 East Broad street.
 Hunt, William Franklin, 1887, M. E. (LL. B., 1895, LL. M., 1896, University of Minnesota), attorney-at-law, New York Life Building, St. Paul, Minn.
 Hunter, James Williamson, 1904, C. E., Zanesville, O.
 Hunter, Joseph Symmes, 1901, B. A., Seven Mile, O.
 Hunter, Malone C., 1900, M. E. in EE., electrical engineer Kilbourne & Jacobs Manufacturing Company, Columbus, O., 1432 Wesley avenue.
 Huntington, Arthur, 1899, M. E., Chicago, Ill., 4458 Oakenwald avenue, engineer Westinghouse E. & M. Company.
 Huntington, Charles Clifford, B. Sc. (Antioch College), 1902, B. Ph., 1903, M. A., Yellow Springs, O.
 Huston, Charles H., 1897, LL. B. (B. S., Tri-State College, Ind.), Mansfield, O., No. 1-2 Newman Block, attorney.
 Huston, George Enos, 1903, LL. B., Millersburg.
 Hyde, Wilby Grimes, 1887, B. A., LL. B., Chillicothe, O., attorney-at-law.
 Hyle, Charles A., 1896, M. E. in EE., Oklahoma, O. T., observer, U. S. Weather Bureau.

I

Ibanez, Eduardo B., 1904, D. V. M., Catamarca, Arg. Rep.
 Imes, Marion, 1899, B. Sc. (Agr.), 1901, D. V. M., Chicago, Ill., 316 Exchange Bldg., meat inspector U. S. government office.
 Ingram, Imogene, 1897, B. Ph., (Mrs. John B. Miles), Columbus, 1085 Fair avenue.
 Innis, Lyman H., 1893, B. A., 1895, LL. B., attorney, Columbus, O., 294 East Seventeenth avenue.
 Ireland, Guy Llewellyn, 1895, M. E.
 Irvin, Chadwick H., 1897, M. E., Pueblo, Col., 217 Quincy street, draftsman, Colorado Fuel and Iron Company.
 Irwin, Albert Newton, 1901, D. V. M., Meade, Kansas, inspector, Bureau of Animal Industry, U. S. Dept. Agr.

J

Jackson, Clifford Webster, 1904, B. A., teacher, High School, Plain City, O.
 Jackson, Frank Pierce, 1892, LL. B., 1893, LL. M., Columbus, attorney, 13½ E. State street, 82 South Washington avenue.
 Jackson, Gertrude See, 1904, B. A., Columbus, 48 North Twenty-first street.
 Jacoby, Mrs. Sarah C., 1903, B. A., Columbus, 349 East Rich street.
 James, Florence May, 1896, B. A. (Mrs. Oscar R. Flynn), Chicago, Ill., 5802 Jackson avenue.
 Jaynes, Allan B., 1900, Tucson, Ariz., Editor "Tucson Post," and Secretary Chamber of Commerce.
 Jeffrey, James Fred, 1900, B. Sc., Charleston, Ill., Principal of High School.
 Jeffrey, Maud Dorothy, 1895, B. Ph., assistant in library, State University, Columbus, 1281 Neil avenue.
 Jenkins, William B., 1893, C. E., Bellefontaine, draftsman, Bellefontaine Bridge and Iron Company.
 Jenkins, Willis H., 1894, C. E., Sheridanville, Pa., Civil Engineer, P. C. C. & St. L. R. R.
 Jennings, Elma Fogg, 1902, B. Ph., Canal Winchester, O., Asst. Principal of Schools.
 Jennings, Irvin G., 1899, LL. B., Zanesville, O., Probate Judge of Muskingum County.
 Jennings, Levi E., 1897, M. E. in EE., Eaton, O.
 Jennings, Otto Emery, 1903, B. Sc. (Agr.), Olena, O.
 Jennings, William Silver, 1904, B. A., Eaton, O.

- Johnson, Charles W., 1896, M. E. in EE., Norwood, O., 2272 Jefferson avenue, production manager, Bullock Electric Manufacturing Company.
- Johnson, Earle S., 1900, M. E. in EE., General Electric Company, Schenectady, New York.
- Johnson, Theodore Charlemagne, 1903, D. V. M., Columbus.
- Johnson, Walter Alexander, 1902, M. E., Columbus, 76 King avenue, Motive Power Dept., of P. C. C. & St. L. Ry.
- Johnston, Frederick Symmes, 1899, B. Sc. (Agr., College Station, Tex., Professor of Agriculture Texas Agricultural College.
- Johnston, George Edward, 1892, C. E., L. & N. R. R., Cor. Tenth and Broadway, Louisville, Ky., 712 West Broadway.
- Johnston, Herbert Lincoln R., 1892, M. E. in EE., Troy, O.
- *Jones, A. A., 1886, C. E., died May, 1894.
- Jones, Arthur James, 1898, M. E. in EE., Wilkinsburg, Pa., Westinghouse Electric and Manufacturing Company.
- Jones, Aaron Wesley, 1891, B. Sc., Columbus, 574 Kiefer avenue, Gardner Insurance Agency.
- Jones, Alexander Houston, 1895, M. E. in EE., St. Louis, Mo., 3341 Morgan street, consulting engineer, 604 Burlington Bldg.
- Jones, Benner, 1897, LL. B., B. A. (Rio Grande College, Ind.), Jackson, O., attorney.
- Jones, Daniel C., 1902, B. Ph., Jackson, O., student O. S. U. Law School.
- Jones, Daniel D., 1893, G. Ph., Athens, O., Teller of Bank of Athens.
- Jones, Hanby Raymond, B. Ph. (Otterbein University), 1901, LL. B., 1904, LL. M., Columbus, O., 415 Outlook Bldg.
- Jones, Jesse Lee, 1890, B. A., Wilmerding, Pa., Tonnalenka Club, Metallurgist, Westinghouse E. & M. Co.
- Jones, John, 1901, B. Ph., Columbus, West Fourth avenue.
- Jones, Lloyd, 1903, B. Sc. (Agr.), Tuskegee, Georgia, teacher, Tuskegee Institute.
- Jones, Paul, 1880, B. A., Columbus, attorney-at-law, Hayden Bank Building.
- Jones, Pearl N., 1892, M. E. in EE., engineer and salesman Westinghouse E. & M. Company, Wilkinsburg, Pa.
- Jones, Richard Thomas, 1900, B. Ph., Columbus, 172 Seventeenth street.
- Jones, Smiley, 1894, E. M.
- Jones, William Francis, 1896, D. V. M., Cincinnati, Miami Medical College.
- Judd, Horace, 1897, M. E., 1899, M. Sc., Assistant Professor in Experimental Engineering, Ohio State University, Columbus, 245 West Fourth avenue.
- Judkins, Clyde H., 1897, LL. B. (A. B., Scio College), Cleveland, O., 77 Billings avenue.
- Judson, Walter Raymond, 1903, M. E., Santa Barbara, Chihuahua, Mexico, with Montezuma Lead Co.
- *Junk, Harry Prior, 1895, LL. B., died August, 1904.

K

- Kahle, James Byron, Ph. B. (Hiram College), LL. B., 1902, Columbus, O., 235 East Gay street.
- Kalb, Warren Cornelius, 1904, M. E. in EE., Beaverdam, O.
- Kanmacher, Samuel H., 1900, M. E. in EE., testing department General Electric Company, Schenectady, N. Y.
- Karshner, George M., 1900, B. A., Columbus, O.
- Kauffman, Henrietta Christine, 1901, B. Ph., Columbus, University Grounds.
- Kauffman, Margaret Glenn, (Mrs. John M. Barringer), 1901, B. Ph., Columbus, 62 North Garfield avenue.
- Keagle, Anna Brown, 1895, B. Ph., Columbus, teacher North High School, 1256 Neil avenue.
- Keating, David Thatcher, 1899, B. Ph., 1902, LL. B., Columbus, 1317 East Broad street, first assistant City Solicitor.
- Keating, Harvey, 1902, B. Sc., Columbus, O., 1317 East Broad street.
- Keffler, Frederick, 1892, M. E., 31 Nassau street, New York City.
- Kelfer, William White, 1886, B. A. (LL. B., Cincinnati), Springfield, attorney-at-law, 560 East High street.

*Dead.

- Kelser, Forest LeGrand, 1904, B. A., Bryan, O.
 Kelser, Romeo Orpheus, 1892, B. Sc., 1896, G. Ph., 1898, M. D. (O. M. U.), 1899, M. D. (Cleveland Homeopathic Medical College, Columbus, physician, 1045 Oak street.
 Kellerman, Ivy, 1898, B. A., 1899, M. A. (Cornell University), W. Eleventh avenue, Columbus, O., graduate student, Chicago University.
 Kellicott, William E., 1898, B. Ph., 1904, Ph. D. (Columbia University), assistant in Zoology, Barnard College, New York.
 Kellison, Edward Lafayette, 1897, B. Ph., 1900, LL. B., Quincy.
 Kemmler, Edward A., 1888, C. E., Columbus, 85 Deshler avenue, assistant city engineer.
 Kern, Blanche May, 1904, B. A., Columbus, 910 East Gay street.
 Kern, William Frederick, 1902, B. Sc., Columbus, 75 West Tenth avenue, chemist Buckeye Malleable Iron and Coupler Company.
 Kerr, Samuel Thompson, 1894, M. E. in EE., Martins Ferry, superintendent Municipal Electric Light Plant.
 Kersey, William Rufus, 1899, M. A. (B. A., Earlham College), Columbus, 70 South Grant avenue, teacher in High School.
 Kershaw, Francis Stewart, 1891, B. Ph., Bond street, Cambridge, Mass.
 Kershaw, Samuel Charles, 1892, B. Ph., Columbus, Weisman, Lilley & Kershaw, dry goods merchants.
 Kester, Fred. Edward, 1895, M. E. in EE., A. M. (Cornell '99), Columbus, Assistant Professor in Physics, Ohio State University.
 Kettering, Charles Franklin, 1904, M. E. in EE., Londonville, O.
 Kettler, Frank Christian, 1901, C. E., draftsman, North Works, Illinois Steel Company, Chicago, Ill., Ravenswood, 207 Vilas Place.
 Kieseewetter, Louis Frank, 1891, C. E. (A. B., Harvard, '92, and A. M., '93), Columbus, Cashier Ohio National Bank, Treasurer O. S. U.
 Kiler, Abdel William, 1896, G. Ph., druggist, Columbus, Eighth and High streets.
 Kinder, Gordon D., 1900, B. Ph., attorney, Toledo, O.
 Kimberley, Charles H., 1900, B. Sc., 1901, M. Sc. (pharmacy), Fargo, N. D., instructor in Pharmacy, North Dakota Agricultural College.
 King, Herbert Sumner, 1901, C. E., Buckhannon, W. Va., assistant engineer, Buckhannon & Northern Railroad Company.
 King, Robert James, 1899, B. A., 1902, LL. B., Rooms 210-213 Masonic Temple.
 King, Roy Stevenson, 1902, M. E., Minneapolis, Minn., 328 Delaware street, graduate student and Asst. in Laboratory of Experimental Engineering, University of Minn.
 Kirby, Harriet R., 1898, B. A., 1903, M. A., Columbus, teacher in North High School, 84 West Fifth avenue.
 Kirk, George Barlow, 1901, B. A., teacher in High School, Mechanicsburg.
 Kirker, Harry L., 1889, B. Sc., with the Westinghouse Company, London, England, "The Strand," Westinghouse Building.
 Kiser, Katherine Daniel, 1895, B. A., Columbus, teacher in High School, 81 Miami avenue.
 Klein, David, 1900, B. Ph., 1903, M. A., Columbus, Rabbi of Jewish Synagogue, 526 East Main street.
 Klie, Walter, 1903, M. E., Columbus, 66 Hoffman avenue, advanced student in engineering, O. S. U.
 Kline, Charles H., 1897, M. E. in EE., Dayton, civil engineer with R. C. Kline, consulting engineer.
 Knauss, William Henry, 1895, B. Sc., M. D., (Starling Medical College, 1903), Newark, Ohio.
 Knecht, Arthur Edward, 1898, M. E., Cincinnati, O., mechanical engineer Screw and Tap Company.
 Knight, Caroline E., 1900, B. Ph., (Mrs. —), Columbus.
 Knight, Ruby Ray, 1895, B. Sc., (Mrs. Josiah Keeley), Montgomery, W. Va.
 Knight, William A., 1900, M. E., Columbus, 206 West Lane avenue, assistant professor of Machine Shop Practice, State University.
 Knopf, Eva S., 1895, B. Ph., Columbus, teacher in North High School.
 Knopf, George W., 1883, B. Sc., Pottstown, Pa., engineer, McClintic-Marshall Construction Company.
 Knox, Frank Stewart, Jr., 1900, E. M., San Toy, (near Corning), O., Mining Engineer, New England Coal Co.
 Knox, John Dorsey, 1904, B. A., Homeworth, O.
 Kohl, Clayton Charles, 1901, B. Ph., Supt. of Schools, Mechanicsburg, O.

- Kochheiser, Charles C., 1904, B. A., Bellville, O.
 Kohr, Donald Alexis, 1898, B. Ph., assistant manager Lowe Bros.' Paint Works, Dayton.
 Kohr, Paul Homer, 1903, B. A., Columbus.
 Kramer, John Franklin, B. A. (Ohio Normal University), 1902, LL. B., Mansfield, O., attorney-at-law, "Beech & Kramer."
 Krauss, Bertha Katharine, 1892, B. Ph., Ottawa, 304 East Main Cross street, Fire Insurance Agent.
 Kreiger, Charles Henry, 1887, G. Ph., Kauffman-Latimer Co., Columbus.
 Krumm, Charles S. M., 1896, B. Ph., 1898, LL. B., attorney, Columbus, 277 South Eighteenth street.
 Krumm, Herbert Zettler, 1898, B. Ph., Fort Clark, Texas, Second Lieutenant, U. S. Army.
 Krumm, Lillian Louise, 1895, B. Ph. (Mrs. Harry Rush Wilson), Columbus, 1543 East Main street.
 Krumm, Louis Ralph, 1898, M. E. in EE., Columbus, Ga., engineer Southern Telephone Construction Company.
 Krumm, Thomas Zettler, 1902, C. E., Waverly, Iowa, Box 70, instrument man, C. G. W. R. R.
 Krupp, William Emil, 1899, LL. B., Uhrichsville.
 Kuhn, Valley Howard, 1896, M. E. in EE., Etta.
 Kuhn, Harry Waldo, 1897, B. Sc., Ph. D. (Cornell), Assistant Professor of Mathematics, Ohio State University, 1462 Neil avenue.
 Kunkle, Fred Raymond, 1903, M. E. in EE., Wilkinsburg, Pa., 1030 South ave.

L

- Lamb, Morgan Baxter, 1901, D. V. M.
 Lamb, Whitney E., 1900, M. E. in EE., testing department General Electric Company, Schenectady, N. Y.
 Lambert, Elza J., 1903, LL. B., Chesterhill, O.
 Lamme, Benjamin G., 1888, M. E., Pittsburg, Pa., asst. chief engineer, Westinghouse E. & M. Company.
 Lamme, Bertha A., 1893, M. E. in EE., Pittsburg, Pa., Westinghouse E. & M. Company.
 Landacre, Francis Leroy, 1895, B. A., Associate Professor of Zoology and Entomology, State University, Columbus, 299 West Sixth avenue.
 Landacre, Walter Alexander, 1891, G. Ph., 1902, B. Sc., 1408 Wesley avenue, Columbus, chemist, H. Braun Sons & Co.
 Landis, Walter Victor Titus, 1895, B. Ph., Dayton.
 Lane, Quinton R., 1898, B. Ph., 1900, LL. B., attorney, Columbus, 810 Wyandotte.
 Langdon, Elmer, 1904, D. V. M., Sabina, O.
 Lanman, Faith Robinson, 1903, B. Sc. (Dom. Sci.), St. Petersburg, Florida, teacher in Gymnasium and Domestic Science, State Normal and Industrial School.
 Large, Joseph H., 1890, C. E., draftsman Massillon Bridge Company, Massillon, Ohio, 21 Cedar street.
 Laughlin, Horace Wade, 1904, D. V. M., Belle Centre, O.
 Laughlin, Hugh Clarence, 1890, B. A. (A. M., 1895, University of Nebraska), 530 West 123rd street, New York, teacher in Morris High School.
 Lavery, William F., 1890, D. V. M., meat inspector Bureau of Animal Industry, Kansas City, Mo.
 Lawrence, Arthur K., 1897, G. Ph., Columbus, 69 North Seventeenth street, pharmacist.
 Laybourne, Lawrence Everette, 1902, LL. B., Springfield, O., 7 Bushnell Bldg.
 Laylin, Clarence Dewey, 1904, B. A., student, Law School, O. S. U.
 Layton, Roy Everett, 1895, B. A., 1897, LL. B., Wapakoneta, O., attorney.
 Lee, Corless E., 1900, M. E. in EE., with General Electric Company, Schenectady, N. Y., 1 Division street, P. O. Box 289.
 Lee, Edwin S., 1893, G. Ph.
 Lee, Robert M., 1897, M. E., draftsman, Ordnance Department, U. S. Army, Washington, D. C.
 Leeper, Charles Foster, 1903, LL. B., Marietta.
 *Lefler, Edward Victor, 1896, G. Ph., died July 13, 1901.
 Lehman, John Wesley, 1899, B. Ph., Canal Winchester.

*Dead.

- Leibold, Carl Peter, 1904, M. E. in EE., Worthington, O.
 Lemert, Helen Ora, 1894, B. A., M. A., (Harvard, 1903), Columbus, 1256 Eastwood avenue, teacher East High School.
 Lentz Alice B., 1897, B. Ph., Lloydsville.
 Lentz, Florence, 1901, B. Ph., Marysville, O., teacher.
 Lentz, Theresa, 1893, B. Ph., Bellaire, teacher in High School.
 Leonard, Hannah Margaret, 1903, B. Ph., (Mrs. Charles Leonard), Columbus, O.
 Leonard, James Lincoln, 1893, LL. B. (B. S., Ohio Normal University), Welcome, O.
 Leonard, Ralph Sherman, B. A., M. A. (Dennison University), 1902, LL. B., Cleveland, O., 418 Williamson Bldg.
 Lesh, John Howard, 1901, M. E., Cleveland, O., 806 Willson avenue, check draftsman, Garry Iron and Steel Company.
 Levering, Orpheus D., 1893, M. E., foreman of tool room, Columbus Machine Company, Columbus, O.
 Lewis, Charles Montgomery, 1881, B. A., Columbus, with Columbus "Evening Dispatch," 44 E. Norwich avenue.
 Lewis, George Herbert, 1904, B. A., Leo, O.
 Lewis, Thomas K., 1894, B. Sc., Columbus, 96 East Eighth avenue, Instructor in Architecture and Drawing, O. S. U.
 Lincoln, Paul Martyn, 1892, M. E. in EE., Westinghouse E. & M. Company, Pittsburg, Pa., Fifth and Elysian streets.
 *Lindo, William C., 1896, C. E., died 1900.
 Linebaugh, Jesse J., 1899, M. E. in EE., Schenectady, N. Y., electrical engineer, testing department, General Electric Company.
 Linson, Irvin, 1882, B. A.
 Linville, Clarence P., 1900, B. Sc., 1902, M. A., State College Pa., Box 362, Instructor in Metallurgy in Pennsylvania State College.
 *Linxweiler, Otto Zimmerman, 1903, M. E., died February 19th, 1904.
 Lipp, Charles Clinton, 1903, D. V. M., New Middletown, O.
 Lisle, Charles H., 1900, B. Ph., Mansfield, O., 227 Newman street, physician.
 Lisle, Dallas Gypsi, 1899, B. Ph. (Mrs. J. Fredwell Stone), Findlay, O., 408 Tiffin avenue.
 Lisle, Leslie Mae, 1899, B. Ph., Columbus, 224 West Tenth avenue, M. D.
 Lisle, Mabel, 1897, B. Ph. (Mrs. Wm. Mead), King avenue, Columbus.
 Lisle, Thomas G., 1903, B. Ph., Columbus, with Hallwood Cash Register Co.
 Loechler, Elsa, 1904, B. A., Columbus, 339 E. Rich street.
 Logan, Lavallette Lasea, 1896, E. M., general manager Rockhill Iron and Coal Company.
 Logsdon, Carey Lignori, 1899, B. Ph., Columbus, 661 Mt. Vernon avenue.
 Logsdon, Clement Jay, 1898, G. Ph., Osborne, O.
 Long, Frank Clark, 1903, B. Sc. (H. and F.), West Sonora.
 Long, George Garfield, 1903, E. M., Tug River, McDowell County, West Va., U. S. Coal & Coke Co., Camp No. 4.
 Loomis, Homer Leslie, 1904, B. A., Columbus, 413 S. Front street.
 Loomis, John Cooper, 1898, LL. B., Tiffin.
 Lorbach, David Jr., 1904, B. A., Waverly, O.
 Loren, Mary McMillan, 1903, B. Ph., Columbus, 1371 North High street.
 Lott, Charles Milford, 1895, M. E. in EE., superintendent electric light plant, Hicksville, O.
 Loveberry, Clarence, 1896, D. V. M., Portland, Oregon, U. S. Inspector, Bureau of Animal Husbandry.
 Lovejoy, Ellis, 1885, E. M., New Lexington, O., general manager Imperial Clay Company.
 Lovejoy, Jesse R., 1884, B. Sc., Schenectady, N. Y., with General Electric Co., Manager of Sales Dept.
 Luce, George Ernest, 1897, LL. B. (A. B., Ohio Wesleyan University), Columbus, 95 Hamilton avenue.
 Luse, Clara E., 1897, B. Ph. (Mrs. Herbert Scott), Marietta.
 Lusk, William Vinton, 1893, D. V. M., Manila, Philippine Islands, Veterinarian for Second U. S. Cavalry.
 Lydenberg, Walter B., 1898, B. A., Dayton.
 Lynas, Caroline, 1898, B. A., Columbus, 109 West Gay street.
 Lynas, Charles E., 1898, B. A., Columbus, 194 Hamilton avenue.

*Dead.

Lyon, Arthur H., 1900, M. E., works manager, New York Blower Company, Bucyrus, O.

M

Maag, Benjamin Franklin, 1899, M. Sc. (B. Ph., Wooster University), Mt. Eaton.
Macquire, Charles White, 1895, G. Ph., '97, M. D. (Toledo Medical College), Toledo, O., physician and pharmacist, corner Utah and Fassett streets.
Machwart, Washington J., B. Sc. (Muskingum College), 1900, M. A., Mt. Eaton, Ohio.

Mack, Egbert Hiram, 1903, B. Ph., Columbus, with "The Citizen."

Mackey, Ure LaVerne, 1893, M. E. in EE. (B. A., Wooster University).

Magly, Robert O., 1897, G. Ph., chemist, Miller-Wagoner-Fiesner Company, Columbus, O.

***Magruder, Leonard Anthony, 1895, B. Ph., 1896, LL. M.**

Maler, John Valentine, 1895, LL. B. (B. S., Northern Indiana Normal University), Edon, O.

Malone, James Bernard, 1904, B. A., South Charleston, O.

Malone, William Ruskin, 1885, B. A., New York City, with New York Life Insurance Company, room 1917, Park Row Building.

Manecke, Gilbert, 1897, LL. B., Toledo, O.

Manley, Rush Emmett, 1894, M. E. in EE., chief inspector Central Union Telephone Company, Columbus.

Mann, Wilber Edwin, 1899, B. Ph., 1900, M. A., Columbus, 1420 Wesley avenue.
Marckworth, Otto Stanley, 1901, B. Sc. (Chem.), Columbus, 92 Pugh avenue, manager Ohio Testing Laboratory, 25 Board of Trade.

Mark, Mary Louise, 1903, B. A., New Cumberland, West Va., teacher in High School.

Mark, Robert Matthew, 1904, B. A., Milo, O.

Marker, James Reed, 1904, C. E., Versailles, O.

Marple, Charles Allen, 1885, B. Sc., Cleveland, O., Teacher of Physics in Cleveland Schools.

Marquard, Frank Fred, B. L., 1896, C. E., Sharon, Pa., 59 Walnut street, superintendent Sharon Coke Company.

Marquardt, Samuel Jacob, 1904, D. V. M., Monroeville, Ind. *

Marshall, Charles Howard, 1903, M. E., Lima, O., 411 South West street, Designing and Drafting, The John W. Sivan Co.

Marshall, George Sidney, 1894, B. Ph., 1897, LL. B., Columbus, 1568 Neil avenue, attorney, special counsel for City Solicitor.

Marshall, Ida, 1902, B. Sc. (Dom. Sci.) Ulyssess, Grant County, Kan., teacher.

Marshall, Willard B., 1900, M. E. in EE.

Martell, Leonard Roland, 1898, B. A., Romeo, Mich.

Martin, Edwin Dunlevy, 1891, B. Ph., Danville, Illinois, Principal of High school.

Martin, George, 1897, M. E. in EE., Elyria, O., 518 East ave., Special Inspector, National Tube Co.

Martin, John Douglas, Jr., 1901, M. E., Dennison, O., P., C.; C. & St. L. shops.

Martin, Percy, 1892, M. E. in EE., general manager Daimler Motor Company, Coventry, England.

Martin, Roy Morton, 1904, M. E., Richwood, O.

Martin, William Kooker, 1903, B. Ph., Columbus, 1550 Neil avenue, student, O. S. U. Law School.

Martz, Velorus, 1901, B. A., Eaton, O., teacher in High School.

Marvin, Charles Frederick, 1883, M. E., Washington, D. C., 1404 Benney street, U. S. Weather Bureau.

Mason, George F., 1890, G. Ph., M. D. (Milwaukee Medical College, 1900), Milwaukee, Wis., physician.

Masters, George Albert, 1886, C. E., assistant bridge engineer, A., T. & S. F. Ry., Topeka, Kan.

Mathers, John Harrison, 1895, B. Ph., Conover, O.

Mathias, Frederick W., 1893, B. Sc., Toledo, teacher High School.

Matson, George H., 1892, G. Ph., 169 Hamilton avenue, Columbus, druggist and professor of Pharmacy and Materia Medica, Ohio Medical University, 662 East Long street.

*Dead.

- Matson, William Edgar, 1896, M. E. in EE., Lynn, Mass., production department, General Electric Company.
- Matthews, Max Moses, 1902, B. Ph., Columbus, M. & M. Bank.
- Mauer, George Clifford, 1892, D. V. M., Oak Harbor, O., veterinarian.
- Mays, James Wesley, 1897, B. Ph., Columbus.
- McAllen, William Johnson, 1894, C. E., civil engineer, Illinois Steel Company, Chicago, Ill., 42 Cedar street.
- McAllister, Earl Saddler, B. Ph., 1902, Columbus, 1143 Neil avenue, student O. S. U. Law School.
- McAlpine, Maud A., 1904, B. A., Columbus, 323 West Seventh avenue.
- McCall, Arthur Gillett, 1900, B. Sc. (Agr.), Bureau of Soils, U. S. Department of Agriculture, Washington, D. C., assistant in Physical Laboratory, 223 "A" street, N. E.
- McCallum, Raymond, 1900, B. Ph., Montgomery, Michigan.
- McCarter, Edward Bancroft, 1892, B. A., 1894, LL. B., attorney, Columbus, 737 Bryden road.
- McCarter, Flora, 1897, B. A. (Mrs. George McAuley), Columbus, 1216 Bryden road.
- McCarter, Robert Dale, Jr., 1895, M. E. in EE., Clem House, Surrey street, "Strand," London, England, mapager and engineer Bath Electric Tramway, Ltd.
- McCleary, Clayton A. (Ph. B., Franklin College), 1900, LL. B., Lorain.
- McClelland, Chester Arthur, 1903, B. Sc. (Agr.), Terrace Park, O.
- McClelland, Chalmer Kirk, 1898, B. Sc. (Agr.), M. S. A. (Cornell, 1902), West Raleigh, N. C., Asst. Professor of Agriculture, North Carolina A. and M. College.
- McClelland, Cloys Peter, 1904, B. A., Rawson, O.
- McClelland, Robert Lyle, 1901, D. V. M., St. Joseph, Mo., Box 551.
- McClure, Robert E., 1900, LL. B., Dayton, O., room 7, McIntire Building, attorney.
- McClure, Roy Donaldson, 1904, B. A., Columbus, 1299 Neil avenue.
- McComb, Hoyt Sherman, 1904, E. M., Columbus, 207 East State street.
- McCormick, J. H., 1880, M. E., mechanical engineer, Columbus, 1354 Fair avenue.
- McCormick, William Francis, 1896, M. E., Columbus, O., Fair avenue, Buckeye Malleable and Steel Casting Co.
- McCullough, George Elmer, 1891, B. Sc., Vinita, Indian Terr., attorney-at-law.
- McDonald, Joseph Sylvester, 1901, B. Ph., Rendville, O.
- McDowell, James Keen, 1903, B. Ph., Columbus, O., W. Fourth avenue.
- McDowell, John Andrew, 1882, B. Sc., 949 Neil avenue, Columbus, cement engineer.
- McFadden, John Franklin, 1878, B. A.
- McFarland, Horace Maley, 1902, E. M., Birmingham, Alabama, Asst. Mining Engineer, Tennessee Coal & Iron Co.
- McGirr, B. A., (Ohio Normal University), 1904, LL. B., Columbus, 180 West Frames avenue.
- McGarey, Leo Sylvester, 1904, M. E. in EE., Junction City, O.
- McGregor, James Howard, 1894, B. Sc., New York, assistant in Zoology, Columbia University.
- McGrew, John Alexander, 1895, C. E., M. of W., Pennsylvania Railroad Company, Logansport, Ind.
- McGuffey, Francis Hoyt, 1894, M. E. in EE., clerk Railway Mail Service, Columbus.
- McGuire, Chas. W., Ph. G., Toledo, O., physician.
- McIntire, Alfred Heber, 1898, M. E. in EE., 1900, M. E., Mt. Vernon, O., care "McIntire & McIntire," lawyers.
- McIntosh, Roscoe Everett, 1902, M. E., Schenectady, N. Y., 308 Summit avenue, General Electric Company.
- McKeon, Robert Dale, 1902, C. E., assistant in Engineer's Corps, Logansport Div., P., C. & St. L. Ry., Logansport, Ind.
- McKinley, Mary Ann, 1904, B. A., Trinway, O.
- McKinney, Frank Cowen, 1901, B. A., 1902, M. A., Madison, Wis., Instructor in English Dept., University of Wisconsin.
- McLaughlin, Annis, 1897, B. Ph. (Mrs. Henry Miller), Portsmouth, O.
- McLaughlin, James Audley, 1895, LL. B. (B. A., Monmouth College), Adena, O.
- McMahon, Mary Gertrude, 1903, B. Sc. (Dom. Sci.), Columbus.

- *McMakin, Amasa Brown, 1879, B. Sc., died May 22, 1891.
- McNary, George Bull, Jr., 1896, M. E. in EE., Toledo, O. 1764 Summit street, traveling salesman, Bissell & Co.
- McOwen, James Jr., 1904, B. Sc., (H. & F.), Blacklick, O.
- McPherson, Clarence Githens, 1904, B. A., Xenia, O.
- McPherson, William, 1887, B. Sc., 1891, M. Sc., 1895, D. Sc., 1889, Ph. D., University of Chicago, Columbus, State University, Professor of Chemistry, O. S. U. Campus.
- Mead, Charles Searing, 1904, B. Sc., Columbus, 217 King avenue.
- Mead, Clinton V., 1884, B. Ph., Denver, Col., attorney-at-law.
- Mead, Rollo Nooman, 1895, D. V. M., meat inspector, Bureau Animal Industry, St. Paul, Minn.
- Meade, Caroline Annis, 1902, B. Ph., Clyde, O., teacher.
- Mebs, George H., 1897, G. Ph., Columbus, pharmacist, with Hatton Bros.
- Medbery, Roston, 1904, B. A., Columbus.
- Meek, Charles Wesley, 1894, LL. B., Toledo, O.
- Meek, Edward Duncan, 1896, B. A., 1899, M. A., 1903, LL. B., Bellaire, O., 3258 Belmont street, attorney-at-law.
- Meek, William W., 1899, B. Ph., 49 S. Monroe avenue, Columbus, J. W. Meek & Co.
- Melche, Louis Hayes, 1903, D. V. M., North Royalton.
- Meiklejohn, Robert, 1904, M. E., Columbus, 1556 Worthington street.
- Melick, Cyrus Alan, 1903, C. E., Columbus, 121 West Second avenue, draftsman, in care of O. O. Osborne, Asst. Chief Engr. Cin., Bluffton, Chicago Railroad, Bluffton, Ind.
- Melick, Neil Albert, 1901, C. E., New York City, assistant engineer, N. Y. C. & H. Railway, Room 521, Grand Central Station.]
- Mendenhall, Maurice H., 1893, D. V. M., West Elkton, O.
- Menough, Arthur George, 1894, E. M., secretary and treasurer of Menough Iron and Steel Foundry Company, Wellsville, O.
- Mercer, Frank Emmet, 1896, M. E. in EE., Risdon Iron and Locomotive Works, San Francisco, Cal.
- Mercer, Robert Wood, 1903, E. M., Gary, McDowell County, West Virginia, Engineering Dept., U. S. Coal & Coke Co.
- Merrill, Alice Louise, 1893, B. A., teacher, Chicago, Ill., "Englewood," 6425 Stewart avenue.
- Merrill, Charles Wesley, A. B. (Denison University), 1898, LL. B., 326-330 The Nasby, Toledo, attorney.
- Merrill, Earnest Martin, 1902, C. E., Lester, W. Va., General Manager, Micaiah Coal & Coke Co.
- Mershon, Ralph D., 1890, M. E., consulting engineer, 29 Broadway, New York City.
- *Mesloh, Charles W., 1889, B. A., 1895, M. A., died March 15th, 1904.
- *Metters, Allen, 1896, B. A., died January 22, 1898.
- Metzger, Edward H., 1897, G. Ph., Circleville, O., pharmacist.
- Michael, Victor, 1904, D. V. M., Farmersville, O.
- Mickey, Blanche D., 1898, B. Ph., Columbus, teacher, 777 Summit street.
- Middleswart, Clarence Coulter, A. B. (Marietta College), 1898, LL. B., Marietta, Ohio.
- Middleton, Ambrose, 1895, G. Ph., Malta, pharmacist.
- Miesse, Frank H., 1903, B. Ph., Chillicothe, O.
- Miller, Albert Arthur, 1902, C. E., Baltimore, Md., assistant engineer to Chief Engineer Maintenance of Way, B. & O. R. R.
- Miller, Carl James, 1898, B. Sc. (Agr.), Franklin, stock farmer.
- Miller, Charles C., 1883, B. A., Lima, 701 W. North street, superintendent of schools.
- Miller, Cornelia Williams, 1902, B. Ph., Columbus, O., 354 West Fourth avenue.
- Miller, Daniel Elmer, 1890, G. Ph., M. D. (Ohio Medical College, Cincinnati, 1900), Dayton, physician.
- Miller, Frank Case, 1893, C. E., Sacramento, Cal., 2611 J street, resident engineer, Southern Pacific Ry., Sacramento Division.
- Miller, Frederick A., 1901, B. Ph., Columbus.
- Miller, Gretchen P., 1900, B. Ph., Columbus, 1024 Highland street.
- Miller, Henry Franklin, 1889, M. E.

*Dead.

- Miller, Henry P., 1897, D. V. M., Sunbury, O., Editor, "North American Farmer."
- Miller, Merritt Finley, 1900, B. Sc. (Agr.), M. S. A. (Cornell, 01), Instructor in Agronomy, State University, Columbus, 1526 Worthington street.
- Miller, Ralph Charles, 1901, C. E., maintenance of way department, P., C., C. & St. L. Ry., Pittsburg, Pa.
- Miller, Walter McNab, B. Sc., 1885 (M. D., 1897, San Francisco Medical College, student Leipsic, Germany), Columbia, Mo.
- *Milligan, James Porter, 1886, B. A., died February, 1899.
- Mills, Glendora, 1902, B. Ph., Marysville, O.
- Mills, Helen, 1902, B. Ph., Gallipolis, O.
- Mills, William C., 1898, B. Sc. (H. & F.), M. Sc., 1902, Curator Archaeological Museum, State University, Columbus, 78 West Tenth avenue.
- Milne, Alexander, B. D. (Yale University), 1898, M. A., Duluth, Minn., pastor Pilgrim Congregational Church.
- Minor, Wells Hammond, 1903, E. M., Central City, Kentucky, Box 124.
- Minton, LeRoy Himes, 1904, E. M., (Cer.), Covington.
- Minshall, Thaddeus Ellis, 1901, LL. B., Columbus, coal business, 387 Oak street.
- Mitchell, Lynn Boal, 1903, B. A., Ithaca, N. Y., 110 Cook street, Cornell, Univ.
- Mitzenberg, Allena May, 1901, B. Ph., Columbus.
- Mix, Edward W., 1888, B. Sc., Paris, France, 12 Boulevard des Invalides, Chief Engineer, Thomas-Houston Co.
- *Mix, Melvin Noble, 1895, B. Ph.
- Mock, George Herbert, 1891, B. Sc., Ohio National Bank, Columbus, 600 Oakwood avenue.
- Mock, Marcia Inez, 1901, B. Ph., Bellefontaine, O., teacher, 213 W. Sandusky avenue.
- Molloy, Mary Aloysia, 1903, B. Ph., Columbus, Fellow in Dept. of Rhetoric, O. S. U.
- Moloney, William Patrick, 1903, LL. B., Coddling, O.
- Montgomery, Howard, 1896, B. Ph.
- Moodie, Alice Haynes, 1890, B. A. (Mrs. Arthur Hartwell), Pittsburg, Pa., 505 South Linden avenue.
- Moon, Victor C., 1900, B. Ph., teacher of science, High School, Van Wert, O.
- Mooney, Charles Napoleon, 1900, B. Sc. (Agr.), assistant in Soil Survey, Bureau of Soils, U. S. Department of Agriculture, Washington, D. C.
- Mooney, Daniel Francis, 1894, LL. B., St. Mary's, O.
- Mooney, George Lewis, 1903, M. E. in EE. Woodsfield, O., Westinghouse E. & M. Co., Pitts.
- Moore, Clarence Lemuel Elisha, 1901, B. Sc., Ithaca, N. Y.
- *Moore, Edgar Howard, 1900, B. Sc., died February 6th, 1904.
- Moore, Henry Curtis, 1897, B. Sc., LL. B., 1901, Columbus, O., attorney-at-law, 103 W. Eleventh avenue.
- Moore, Lyman Gooderl, 1903, LL. B., Quaker City, O.
- Moore, Virgil Owen, 1895, B. Sc., M. D., Toledo, 1103 Starr avenue, physician.
- Moreno, Regino Teodoro, 1903, D. V. M., Corrientes, Argentina.
- Morgan, Roy, 1902, B. Ph., Frankfort, O.
- Morhart, Katherine Elizabeth, 1896, B. Ph., (Mrs. Lowey F. Sater), Columbus, 325 Buttles avenue.
- Morlan, Wilbert, 1903, M. E., Rogers, O.
- Morrey, Annie Eliza, 1896, B. A., Chesterhill, O.
- Morrey, Charles B., 1890, B. A., 1896, M. D., Professor in Bacteriology, State University, Columbus, 188 West Tenth avenue.
- Morrey, William T., 1888, B. A., New York City, teacher Physiography and Physiology at Morris High School, 56 West 104th street.
- Morris, Ingle, A., 1900, LL. B., Columbus, 163 West Ninth avenue.
- Morris, Clyde T., 1898, C. E., Cleveland, O., King Bridge, O.
- Morris, Robert Hamilton, 1901, E. M., Glouster, O., Continental Coal Co.
- Morris, Willard Bernard, 1903, M. E., Columbus, 875 East Broad street.
- Morris, William Blaine, 1902, M. E., Mt. Vernon, O., 8 West Chestnut street draftsman, C. & G. Cooper Company.
- Morrison, M. Frank, 1869, B. A. (Mrs. S. H. Short), New York City.
- Morrison, Robert O., 1893, C. E., Zanesville, O., Asst. Engineer of M. V. Ry.

*Dead.

- Morrow, Charles James, 1900, D. V. M., meat inspector, Bureau of Animal Industry, St. Joseph, Mo.
- Morse, Max Withrow, 1903, B. Sc., 1904, M. A., Columbus, Fellow, O. S. U.
- Morton, George L., 1884, M. E. (LL. B., National Law School), chief examiner instruments of precision, patent office, Washington, D. C., room 256.
- Morton, Max De Los, 1903, B. Ph., Columbus, O., 164 West Ninth avenue, Fellowship in Library and Graduate Student O. S. U.
- Moses, Martha Allston, 1891, B. Ph., Chicago, Ill., "The Plaza," Secretary of World Railway Publishing Co. & American Accounting Co.
- Moss, Blanche, 1898, B. A., (Mrs. Fred Connolley), Columbus, O., 1507 Michigan avenue.
- Moss, William, 1898, G. Ph., Cambridge, O., general manager Cambridge Street Railway.
- Moyer, Henry E., 1893, B. Sc., Youngstown, chemist, Youngstown Steel Company.
- Muirie, Frederick John, 1902, B. A., Columbus, Fellow in Rhetoric, O. S. U.
- Mull, Bert LaForrest, 1898, LL. B., A. B. (O. W. U.), Columbus, 114 Herman street.
- Mullay, Annie, 1887, B. Ph., Chicago, Ill., teacher
- Mumma, Marion Wilson, 1901, B. Sc., 1904, M. A., assistant in chemistry, State University, Columbus, 208 West Ninth avenue.
- Mundhenk, Fred, 1896, B. Ph., life insurance agent for John Hancock Mutual Life Ins. Co., Toledo, O., 209 Nasby Bldg.
- Mundhenk, Herbert C., 1889, B. Ph., (M. D., Jefferson Med. College, 1902), Brookville, physician.
- Mundhenk, Ruth, 1899, B. Ph.,
- Munn, Mortimer Adam, 1894, C. E., Cleveland, civil engineer, E. P. Roberts Co., No. 49 Delmont.
- Munson, Theodore, 1898, B. Sc., Zanesville, O.
- Murdock, George Washington, 1901, B. Ph., Durango, Col.
- Murphy, Joseph Lincoln, 1903, C. E., Floodwood, Mich., Mining Engineer, N. Y. Coal Co.
- Murray, Claude R., 1895, B. A., Piedmont, W. Va., Supt. of Schools.
- Murray, Frank Erskine, 1892, D. V. M., meat inspector, Omaha, Neb.
- Musser, Robert Claude, 1904, D. V. M., Buckland, O.
- Myers, Adah Lucile, 1904, B. Sc., (Dom. Sc.), Columbus.
- Myers, Albert B., 1900, E. M., constructing engineer for Compania Metallurgica Mexicana, San Luis Potosi, Mexico.
- Myers, Joseph Simmons, 1887, B. A., Pittsburg, editor "Pittsburg Post."
- Myers, M. J., 1898, V. M., in care of Board of Health, Manila, P. I.
- Myers, Ord, 1895, M. E. in EE., electrical engineer, Metropolitan Street Railway Company, New York City, 711 East 137th street.
- Myers, Roy V., 1893, C. E., Dayton, Tenn., Dayton Coal and Iron Co., Ltd.
- Myers, Uriah H., 1887, E. M., Pittsburg, Pa., 711 Liberty street, printer and stationer, care Myers & Shinkle.

N

- Nachtrieb, Clarence R., 1903, B. Ph., Wauseon.
- Nagel, William G., 1895, M. E. in EE., Toledo, 520 Adams street, president and manager W. G. Nagel & Co., electrical supplies.
- Nauss, Ralph Welty, 1901, B. Sc. (Chem.), Chicago, Ill., 3715 Langley avenue, student Northwestern University Medical School.
- Nash, Owen Arthur, B. A., M. A., (Dennison University), LL. B., 1902, Newark, O., 14 North Fifth street.
- Nash, Simeon, 1901, B. A., 1904, LL. B., Columbus, 75 West Tenth avenue.
- Neale, Alvin Scott, 1904, B. Sc., (Agr.), Rock, O.
- Needham, Harry J., 1900, M. E., special apprentice Pennsylvania R. R., Indianapolis, Ind.
- Needles, Ada Ruckle, 1901, B. Sc., Owosso, Mich., 326 North Washington street.
- Needles, Mana R., 1890 B. Ph., (Mrs. Kilpatrick), Owosso, Mich., 609 North Washington street.
- Neill, Nelson Prentice, 1901, B. Sc. (Agr.), San Bernardino, California, Bureau of Soils, U. S. Dept. of Agriculture.
- Nesbitt, Charles Edward, 1904, B. Sc., (Chem.), Columbus, 606 Mt. Vernon avenue.
- Nettleton, Arthur Warren, 1898, B. Sc., (Agr.), Medina, R. F. D., No. 2, farmer.

- Newton, Henry S., 1889, B. Sc.
 Newton, Samuel Donald, 1895, C. E., Cleveland, Tenn., with Southern Ry. Co., Knoxville, Tenn.
 Newvahner, John Henry, 1891, B. A., Jackson, O., cashier, First National Bank.
 Nichol, Gertrude Bell, 1899, B. Ph. (Mrs. Addison), Columbus.
 Nichols, Ada May, 1902, B. Ph., Chillicothe, O.
 Nichols, Henry Birdsall, 1903, C. E., New Castle, Pa., 109 E. Grant street.
 Nicholson, Charles M., 1900, M. E. in EE., Bullock Electrical Manufacturing Company, Cincinnati, O.
 Nicola, Benjamin D., 1900, LL. B., Barnhill, O., Supervisor and Teacher in High School.
 Nida, William Lewis, 1901, B. Ph., Elmhurst, Ill., Superintendent of Schools.
 Nidy, Herbert C., 1901, M. E. in EE., Schenectady, N. Y., 308 Summit avenue, General Electric Company.
 Noble, W. F., 1879, B. A., Tiffin, attorney-at-law.
 Nold, John H., 1900, E. M., assistant to F. A. Ray, Columbus, O., 6-8 Deshler Block.
 Norris, John S., 1901, B. Ph., New York City, Trinity School, 139 West Ninety-first street.
 Norton, Caroline Clemence, 1904, B. A., Columbus, 363 E. Town street.
 Nurian, Kerson, 1899, M. E., St. Louis, Mo., engineer mechanical and electrical department, St. Louis World's Fair.
 Nutt, Arthur Chase, 1897, B. Ph., Dubuque, Iowa, 104 W. Locust street.
 Nye, Ralph D., 1903, M. E. in EE., Wilkesburg, Pa., Engineering Apprentice, Westinghouse E. & M. Co.

O.

- Oetz, Francis Henry, 1896, G. Ph., '99, M. D., Starling Medical College, Columbus, physician.
 O'Brien, Charles Francis, 1903, B. Ph., Columbus, O., Fifteenth avenue, with "The Citizen."
 O'Brine, David, 1881, B. Sc., M. Sc., 1882, E. M., D. Sc., M. D., Urbana, physician.
 Odebrecht, August, 1895, G. Ph., Columbus, with H. Braun & Sons, wholesale druggists.
 Oden, George W., 1904, D. V. M., Akron, O.
 O'Kane, Sarah Eliza, 1891, B. Ph. (Mrs. F. M. Raymond), 215 West Tenth avenue, Columbus.
 O'Kane, Walter Collins, 1897, B. A., Marble Cliff, O., "O'Kane & Hull," electrical supplies, East Long street.
 Orndorff, Earl Luther, 1903, B. Sc. (chem.), Cincinnati, O., chemist, Proctor & Gamble.
 Ornstein, Sigismund, 1904, B. Sc., Bulgaria.
 Ortman, Earl Hill, 1904, B. A., New Salem, O.
 Orton, Clara Gregory, 1897, B. Ph., Columbus, 1043 Fair avenue, teacher Central High School.
 Orton, Edward, Jr., 1894, E. M., professor of Ceramics, State University, State Geologist of Ohio, Columbus, O., "The Normandle."
 Orton, Samuel Torrey, 1901, B. Sc., Philadelphia, Pa., medical student University of Pennsylvania, Medical College, University of Pennsylvania, Philadelphia, Pa.
 Orton, Walter Edwin, 1899, LL. B., Williamstown, Mass.
 Osborn, Abner A., 1900, B. Sc., Columbus.
 Osborn, Samuel Galloway, 1897, LL. B., Columbus, 275 East State street, attorney.
 Osborn, Raymond Carroll, 1898, B. Sc., 1900 M. Sc., New York City, teacher in High School and graduate student in Zoology, Columbia Univ.
 Overturf, Alva Kendall, 1904, B. A., Columbus, 289 West Seventh avenue.
 Ozias, Albert N., 1889, M. Sc., New York City, 527 West 124th street, Fellow in Zoology, Columbia University.

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- Pabodie, Robert Jewett, 1899, M. E., Philadelphia, Pa., 5523 Wyalusing avenue, Bureau of Filtration, No. 710 City Hall.

- Page, Walter Sharp, B. A. (Yale University, 1900), 1903, LL. B., Columbus, 935 East Broad street, attorney.
- Page, William Herbert, 1892, LL. B., 1894, LL. M. (B. A., Yale), Professor of Law, State University, Columbus, 1068 Franklin avenue.
- Palmer, Walter K., 1893, M. E., State University, Kansas City, Mo., consulting electrical and mechanical engineer, 402 Lyceum Building.
- Parker, John Bernard, 1898, B. A., 1900, M. A., Cleveland, O., teacher, South High School.
- Parmenter, William W., 1900, B. A.
- Parrett, Benjamin Creamer, 1902, B. Sc., McKee's Rock, Pa., Chief Chemist, Pennsylvania Malleable Co.
- Parrett, Frank Coffman, 1904, B. A., Washington, C. H., O.
- Parsons, George McLellan, 1901, B. Ph., Columbus, 665 East Town street.
- Patch, Homer Austin, 1896, C. E., Minneapolis, Minn., draftsman, Minneapolis Steel and Machinery Company.
- Patchell, Owen P., 1889, B. Ph., Paul's Valley, Indian Ter., attorney-at-law.
- Patchin, Rufus Harry, 1898, LL. B., A. B. (Allegheny College), Cleveland, State Fire Marshal.
- Paterson, Bertha Gildersleeve, 1901, B. A., instructor in Gallaudet College, Washington, D. C., Kendall Green.
- Pavlicek, Frank Joseph, 1901, B. Ph., Toledo, 750 Indiana avenue, Instructor of English, East High School.
- Payne, Halbert Edwin, 1887, M. E., 265 Broadway, New York City, president American Typewriter Company.
- Peal, Allen Saunders, 1895, B. A.
- Pearce, George Dower, 1892, G. Ph., South Charleston, O., pharmacist.
- Pearl, Allen Sexton, 1894, M. E. in EE., Chicago, Ill., Manager, Specialty Dept., Central Electric Co., 6008 S. Park avenue.
- Pease, Edward Livingstone, 1895, B. A., 1899, LL. B., Columbus, Indianola avenue, attorney-at-law.
- *Pedlow, Edward Benjamin, 1893, C. E., died January 6th, 1904.
- Peirce, John Mattison, 1895, M. E. in EE., Los Angeles, Cal., 444 Towne avenue, Home Telegraph & Telephone Co.
- Peppel, Samuel Vernon, 1899, B. Sc. (Chem.), Louisville, Ky., 431 West Main street, Consulting Chemist and Engineer.
- Pelton, Forrest Bertram, 1904, M. E., in EE., Chagrin Falls, O.
- *Pence, David Arrel, 1894, M. E., died December 15, 1901.
- Pennock, Gilbert Lee, B. A., (Antioch College), 1904, M. A., Yellow Springs, O.
- Perkins, Earl Harley, 1893, LL. B., Wellington.
- Perry, Elma Brooks, 1901, B. Sc. (Dom. Sci.), B. Ph., Denton, Texas, head of Department of Domestic Sci., State College for Women.
- Perry, John Cole, 1901, B. Sc. (Agr.), Columbia Station, O., farmer.
- Peters, William Lincoln, 1885, M. E., Riverside, Cal., Box 823, horticulturist.
- Petersen, John William, 1903, C. E. (Arch.), Allegheny, Pa., 1329 Federal street, Inspector in Chief Engineer's Office, P. C. C. & St. L. Ry., Pittsburg, Pa.
- Pfarr, Philip Lewis, 1896, B. Sc. (Agr.), Riverside, Wash., Okanogan county, farmer.
- Phelps, Cyrus Alba, 1892, B. Sc., Chalchihuites Zac, Mexico, Treasurer cia Minerva "Huiriachic" S. A.
- *Pilcher, Hastings Moore, 1895, M. E. in EE., died March 14th, 1902.
- Pitts, Grace Lenore, 1900, B. Ph., 1901, M. A., Columbus, 309 East Gay street, (Mrs. Frank E. Myers.)
- Plantz, John Frank, 1904, D. V. M., Akron, O.
- Plantz, Wyatt Garfield, 1894, B. A., Pomeroy, O., cashier, First City Bank.
- Pleukharp, Rev. Chas. V., 1885, M. E., La Crescenta, Cal.
- Plimmer, Gertrude Alice, 1896, B. Ph., (Mrs. Samuel Sargent), Columbus, 57 West Twenty-Second street.
- Pluddemann, Paul Washington, 1904, B. A., Columbus, 438 S. Third street.
- Plum, Harley Martin, 1902, B. A., teacher of science in High School, Colorado Springs, Colo., 14 South Corona street.
- Pocock, Lucy Hunt, 1902, B. Ph., (Mrs. Harry Wagstaff), Niles, O.
- Poindexter, Charles Cordoza, 1903, B. Sc. (Agr.), Cheney, Pa., teacher of Biology and Agl. Chem., and Director of Dept. of Agr. in Training School for Teachers.

*Dead.

- Polk, Walter C., 1895, C. E., Kansas City, Mo., Bryant Bldg., engineer Central Construction Co.
- Pomerene, Frank Etherington, 1891, B. Ph., 1895, LL. B., Coshocton, attorney-at-law.
- *Pool, Harwood Redington, 1881, B. Ph., LL. B., died December 29th, 1903.
- Porter, Clyde C., B. S. (Heidelberg, 1899), 1903, LL. B., Tiffin, O., attorney-at-law.
- Porter, Frederick William, 1904, D. V. M., Augusta, Ga.
- Porter, George Henry, 1901, B. Ph., Sandusky, O., Special Teacher of History, High School.
- Porter, Mary Baxter, 1897, B. Ph. (Mrs. Misseldine).
- Porter, Minnie Ella, 1903, B. Ph., teacher in High School, New Philadelphia, O.
- Postle, Carl Hadley, 1903, B. Ph., Newark, O., lumber business.
- Postle, Herman R., 1894, C. E., Los Angeles, Cal., engineer.
- Postle, Kenneth E., 1894, B. A., Lancaster, Ky., engaged in business.
- Postlewaite, David Neal, 1899, LL. B., A. B. (Northern Indiana University), Columbus, attorney, 715 N. High street.
- Poto, Frank Bert, 1901, B. Sc. (Chem.), assistant chemist National Steel Co., Columbus.
- Porter, Charles S., 1893, M. E. in EE., London, England, Strand, No. 2, Norfolk street, Asst. Manager, British Westinghouse E. & M. Co.
- Powell, Cornelia Thompson, 1902, B. A., Columbus, 518 East Broad street.
- Powell, Edward Thompson, 1896, LL. B., A. B. (O. W. U.), Columbus, 518 East Broad street, attorney.
- Powell, Ivan Elno, 1904, M. E. in E. E., Alliance, O.
- Powell, Norman Clemson, 1895, D. V. M., Damascus, O.
- Prall, Anna Dickson, 1898, B. A., Columbus, 35 King avenue, pension office.
- Pratt, Edna Stuart, 1904, B. A., Columbus, 433 E. Town street.
- Pratt, Fred K., 1900, C. E., Colorado Springs, Colorado, 1307 North Wasatch avenue, Principal of Curtis School.
- Price, Homer Charles, 1897, B. Sc. (Agr.), (M. Sc., Cornell, 1899), Dean of College of Agriculture, Ohio State University, Columbus.
- Priest, Frederick, 1895, D. V. M., Newark, veterinary surgeon.
- Prince, Frank Joseph, 1902, B. Sc., teacher in High School, Bellefontaine, O.
- Prunner, William Reist, 1902, LL. B., Norwalk, O.
- Pryor, Charles Foster, 1898, LL. B., Columbus, 362 Linwood avenue, attorney.
- Pugh, Lawrence Randolph Whetzel, 1893, B. Ph., 1895, LL. B., Columbus, 13 Board of Trade, attorney-at-law, 1287 E. Main street.
- Pulling, Margaret G., 1900, B. Ph., 1901, M. A., Columbus, 55 Ohio avenue.
- Pumphrey, John Homer, 1898, B. Sc., Clayton, O., Montgomery county, physician.
- Putnam, Abbey Slocum, 1897, B. Ph., Colorado Springs, Colorado.

Q

- Quiroga, Modesto, 1904, B. Sc. (Agr.), Ithaca, N. Y., 201 Dryden street.

R

- Radcliff, Charles Anson, 1895, B. Ph., attorney, Lancaster, O.
- Ralston, Wyatt Elgin, 1904, D. V. M., Findlay, O.
- Randall, Emilius Oviatt, 1892, LL. M. (B. Ph., Cornell University), attorney-at-law, Professor of Law, State University, Columbus, 257 Woodland avenue.
- Randall, Rita, 1904, B. A., Columbus, 257 Woodland avenue.
- Randolph, Edward S., 1897, LL. B. (A. B., Ohio Wesleyan University), Newark, O., attorney.
- Rane, Frank William, 1891, B. Agr. (1892, M. Sc., Cornell), Durham, N. H., Professor of Horticulture, New Hampshire College.
- Rarick, Murray M., 1896, B. Sc. (Agr.), Jacksontown, O., physician.
- Rasor, Samuel Eugene, 1898, B. Sc., M. A., 1902, instructor in Mathematics, State University, Columbus, 1594 Neil avenue.
- Randebaugh, Orville, B. A. (Natl. Normal Univ.), 1904, LL. B., Celina, O.
- Rawson, Levi, 1899, C. E., Sistersville, W. Va., Carter Oil Co.

*Dead.

- Ray, Frank A., 1887, E. M., Professor of Mine Engineering, State University, 137 King avenue, Columbus, O.
- Ray, William M., 1893, C. E., room 825, Hickox Building, Cleveland, assistant engineer, B. & O. R. R.
- Raymond, Coles Abel, 1894, C. E., Toledo, O., draftsman, American Bridge Co
- Raymond, Maud, 1899, B. Ph., 1901, M. A. (Mrs. William Tipper), Columbus O., West Broad street, in care of State Hospital.
- Raymund, Frank M., 1888, B. A., Columbus, 215 West Tenth avenue, attorney-at-law.
- Redick, Mary Glisson, 1898, B. Ph., Findlay, O.
- Redrow, Clara Melissa, 1903, B. Ph., La Grange, O.
- Redrow, Walter L., 1900, B. Sc.
- Reed, Garfield Nathaniel, 1903, M. E., Youngstown, O.
- Reed, Robert Browning, 1896, M. E. in EE., Ft. Wayne, Ind., 133 East Tabor street.
- Reed, William Allen, 1897, E. M., Telluride, Colo., Liberty Bell Gold Mining Co.
- Rees, Edith Coleste, 1901, B. A.
- Reese, David R., 1901, B. A., Shawnee.
- Reese, William Daniel, 1891, B. A., Southborough, Mass., St. Marks School.
- Reese, William Henry, 1896, G. Ph., Glen Roy, dealer in Gent's Furnishings.
- *Reeves, Archibald C., 1887, C. E., died October 2nd, 1902.
- Resler, Edwin D. (B. A., Otterbein), 1897, M. A., Monmouth, Oregon, President, State Normal School.
- Reynolds, Howard Capwell, 1904, D. V. M., Factoryville, Pa.
- Ribot, Antonio, 1904, M. E. in EE., Columbus, Robinson Fellow in Mechanical Engineering, O. S. U.
- *Rice, Clarence Stahl, B. A., 1900, M. A., 1903, (Wittenberg), 1903, LL. B., died, March 21st, 1904 at Springfield, O.
- Rice, Herbert A., 1897, C. E., South Bethlehem, Pa., 516 Pawnee street, instructor in Civil Engineering Department, Lehigh University.
- Rice, Mabel Elsie, 1898, B. A. (Mrs. William Minshall), Cleveland, Ohio, 277 Harkness avenue.
- Rice, Mary Washington, 1900, B. A., Columbus.
- Rice, Ray Howard, 1904, C. E., Portsmouth, Va.
- Rice, Susan Esther, 1899, B. A., Columbus.
- Richardson, Hamilton Hutchinson, 1892, B. Agr., South Brooklyn, O., Vegetable and Fruit Grower.
- Richardson, Robert Edwin, 1903, B. A., Cincinnati, O., printing business.
- Richardson, William Waddle, 1899, B. Ph., (M. D., University of Pennsylvania), Columbus, on Hospital Staff of State Hospital, West Broad street.
- Richey, Luzerne A., 1897, B. Ph.
- Rickey, Alberta B., 1889, B. Ph. (Mrs. George H. Cless), Worthington, O.
- Rickey, Tallmadge A., 1900, B. Ph., Columbus, 221 Oak street.
- Riddle, John Scott, 1904, M. E., in E. E., Barnesville, O.
- Riddle, Howard Sterling, 1897, M. E. in EE., Akron, O., 646 Crosby street, Diamond Rubber Co.
- Riddle, Lumina C., 1897, B. Sc., 1898, M. Sc., Topeka, Kansas, Whiten Hall, Washburn College, Instructor of Natural History.
- Ridenour, Walter Ashton, 1902, B. Ph., Jackson, O., hardware business.
- Rietz, Henry Lewis, 1899, B. Ph., Champaigne, Ill., Instructor in Mathematics, Univ. of Illinois.
- Rietz, John Harrison, 1903, D. V. M., College Station, Texas, Instructor in Vet. Science, State A. & M. College.
- Riggs, Ernest Jacob, 1895, B. Sc. (Agr.), M. Sc. (H. & F.), (Cornell), Raccoon Island, Ohio, Fruit Grower & Stock Farmer.
- Rightmire, George Washington, 1895, B. Ph., 1898, M. A., Columbus, 1523 Worthington street, Attorney and Professor of Law in O. S. U. Law School.
- Rightmire, Robert Elwood, 1902, M. E., Columbus, O., 149 West Ninth avenue, special apprentice with Hocking Valley Ry.
- Ritchey, Joseph C., 1890, B. Sc., Cleveland, O., chemist, American Works A. S. & W. Co.
- Ritchie, George Alexander, 1903, C. E., Cumberland, Md., B. & O. R. R.
- Roach, Simeon Andrew, 1899, B. Ph., Chillicothe, 74 East Seventh street.
- Robbins, George A., 1899, B. Ph., Columbus, 66 Lexington avenue.

*Dead.

- *Roberts, Cyrus Swan, 1898, E. M., died Nov. 17th, 1903 at El Paso, Texas.
 Robinson, Eckka Mazola, 1892, B. Sc. (Mrs. George Rowe).
 Robinson, Erdis Geroska, 1893, C. E., Columbus, O., Highland street.
 Robinson, Zella Vinna, 1898, B. Ph., 1900, M. A. (Mrs. Otto Fitzalan Hakes), Dunkirk, N. Y.
 Rockwell, Mary Fannie, 1899, B. Ph., Cleveland, O., teacher in High School.
 *Roebuck, Carl Fletcher, 1900, B. Ph., 1902, LL. B., died June 26th, 1904, Dalton, O.
 Roedel, Frederick Augustus, 1903, B. A., Baltimore, Md., student, Johns Hopkins Univ.
 Rogers, Andrews, 1896, B. Ph., West Jefferson, O.
 Rogers, Frank Persons, 1899, B. A., Columbus, 930 Hunter street, traveling salesman, wholesale lumber.
 Rogers, James Bertrand, 1896, E. M., assistant superintendent Salem Iron Co., Leetonia, O.
 Roney, Mary Malvina, 1901, B. Ph., Bellefontaine, O.
 Root, Willis J., 1885, E. M., Columbus, general superintendent National Steel Co.
 Ross, Calvin Burt, 1903, M. E. in EE., Springfield, O., Y. M. C. A. Bldg., Engineer and Draftsman with Hopper Mfg. Co.
 Rothrock, Maynard Wilbur, 1903, B. A., Akron, O.
 Royon, Edward Donald, 1904, M. E., Houston, O.
 Rowlee, Henry A., 1897, M. E., Columbus.
 Rubins, Frank D., 1904, B. Sc., (Agr.), Kenton, O.
 Ruhlen, Carl Marble, 1898, M. E., Port Townsend, Wash., draftsman, Quartermaster's Department U. S. A.
 Ruhlen, Frank, 1896, B. Sc. (Agr.), Columbus, O.
 Ruhlen, La Mott, 1902, B. Sc., Plain City, Ohio, farmer.
 Rule, Ralph R., 1897, LL. B. (B. S., Tri-State College, Ind.), Norwalk, O., Legal Editor in Law Dept. of Laning Publishing Co.
 Ruppensburg, Emma Anna, 1891, B. Sc., 1896, M. Sc., student, Teachers' College, Columbia University, New York City.
 Russell, Ralston, 1896, B. Ph., Pomeroy, Ohio.
 Ryland, Paul Dillon, 1901, C. E., Pittsburg, Pa., 1013 Penn avenue, assistant on Engineer's Corps, Penna. Lines.

S

- Sabine, Annie Ware, 1884, B. A., 1886, A. M. (1888, B. Sc., Mass. Institute Technology), (Mrs. W. H. Siebert), Columbus, 182 West Tenth avenue.
 Sabine, Wallace Clement, 1886, B. A. (M. A., Harvard), Boston, Mass., 481 Beacon street, Assistant Professor of Physics, Harvard University.
 Sackett, Carl Leroy, 1901, LL. B., Sheridan, Wyo., attorney-at-law, "Metz and Sackett."
 Safford, Robert Edwin, 1894, B. Sc., New York City, Mexican Metallurgic Co.
 Salm, Edna Esther, 1902, B. Ph., (Mrs. Metzger).
 Sanders, Ernest Avery, B. A. (Otterbein University), 1903, M. A., Westerville.
 Sanders, James Glossbrenner, B. Ph. (Otterbein), 1903, M. A., Columbus, O. S. U., Biological Hall, Fellow in Zoology, O. S. U.
 Sandoe, Lydora Olivia, 1893, LL. B. (Mrs. Bachman), 1425 Bryden Road, Columbus, 207½ S. High street, attorney.
 Sater, Clinton Huron, 1902, D. V. M., Sater, O.
 Sater, Lowry Francis, 1895, B. Ph., 1897, LL. B., attorney, 325 Buttles avenue, Columbus.
 Sayre, Charles B., 1900, B. A., 1904, M. A., Columbus, O., with Columbus Sporting Goods Co.
 Scarlett, Henry Lancelot, 1901, B. A., 1903, LL. B., Columbus, 971 Bryden Road, attorney-at-law.
 Schaff, Mae B., 1900, B. Ph., 1902, M. A., (Mrs. Harvey C. Dollison), Columbus, 222 West Eighth avenue.
 Schaeffer, Freelan Wilbert, 1900, B. Sc. (Agr.), Columbus, West Fifth avenue, dairyman, proprietor Standard Milk Co.
 Schantz, Albert John, 1902, B. Sc., Bellefontaine, O., Teacher of Science in High School.

*Dead.

- Schaub, Edward Louis Tascher, 1885, M. E., Columbus, O., 1113 South High street, draftsman, Jeffrey Mfg. Co.
- Schaup, Charles E., 1897, E. M., chief engineer Southern Coal and Transportation Co., Berrysburg, W. Va.
- Scheibell, William O., 1888, E. M., Columbus, secretary and general manager The American Art Tile Co., 151 W. Ninth avenue.
- Schertz, William Arthur, 1904, M. E., in E. E., Hamilton, O.
- Schlaflay, Royden Karl, 1903, C. E., Mt. Eaton, O.
- Schlesinger, Hugo Nathan, 1899, LL. B., Xenia, O., attorney-at-law.
- Schneider, Ernest T., 1904, LL. B., Dayton, O.
- Schoedinger, Ferdinand Philip, 1902, B. A., Columbus, 32 W. Rich street.
- Schoedinger, Frederick H., 1902, LL. B., B. Ph. (Northwestern University). Columbus, 303 Spahr Bldg.
- Schreiber, George E., 1900, M. E. in EE., Kansas City, Mo., with Ford, Bacon & Davis, Engineers, 1500 Grand avenue.
- Schreiber, John Martin, 1899, M. E. in EE., Cleveland, Cleveland Electric Street Railway, Cedar avenue Power House.
- Schroll, Otto, 1886, C. E., Richmond, Ind., Union Station, superintendent Richmond Division P. C. C. & St. L. Ry. Co.
- Schubert, Charles Wesley, 1903, C. E., Mt. Vernon, O., 204 E. High street, Draftsman, Mt. Vernon Bridge Co.
- Schueler, Erwin Waldemar, 1892, B. A., 1894, M. D., (Starling Medical College), 465 South High street, Columbus, physician.
- Schwab, Frank Wilbert, 1902, B. Sc., Newcomerstown, O., chemist, James B. Clow & Sons.
- Schwier, Minona, 1897, B. A., Columbus, 212 East Mound street.
- Scott, Anna Neil, 1886, B. A., 1274 Summit street, Columbus.
- Scott, Bertha, 1890, B. Ph., 131 Fifteenth avenue, Columbus.
- Scott, Herbert, 1893, B. Sc., pastor M. E. church, Marietta, O.
- Scott, Charles Felton, 1885, B. A., Edgewood, Pa., Westinghouse E. & M. Co.
- Scott, Daisy Medill, 1897, B. A., Columbus, teacher in North High School.
- Scott, Dudley, 1900, B. Ph., Cleveland, O., with Lamprecht Bros., bankers.
- Scott, Emma, 1888, B. Sc., Brindiban, India, missionary.
- Scott, Ernest, 1897, B. Sc., (Agr.), M. D., Columbus, O., 873 North High street, physician and city bacteriologist.
- Scott, Mary Odella, 1885, B. A., Columbus, 87 West Fourth avenue, teacher in North High School.
- Scott, Mary Bole, 1896 B., A., Columbus, 926 Oak street.
- Scott, Mary Mermod, 1887, B. A., Columbus, 1274 Summit street.
- Sears, Walter James, 1894, B. Ph., Chillicothe, with Sears & Nichols Co.
- Sedgwick, Edward Crayton, 1895, M. E. in EE., Columbus, Case Mfg. Co., chief engineer.
- Selby, Augustine D., 1893, B. Sc., Wooster, botanist and chemist, Ohio Experimental Station.
- Sellenings, Albert Eugene, 1896, B. Ph., M. D., 102 East Thirty-first street, New York, physician.
- Seney, Allen J. (B. Ph., University of Mich.), 1899, LL. B., North Baltimore, O., attorney.
- Seney, George E. jr., 1901, LL. B., Toledo, O.
- Senter, Herbert Pike, 1902, C. E., Fort Wayne, Indiana, with Pennsylvania Company.
- Serva, Adam A., 1893, M. E. in EE., Ft. Wayne, Ind., assistant sales manager & assistant secretary Ft. Wayne Electric Works.
- Seymour, Edith Athey, 1904, B. A., Columbus, 1311 Highland street.
- Seymour, Raymond J., 1900, B. Sc., Columbus, 76 West Third avenue, Fellow in Anatomy & Physiology, O. S. U.
- Shank, Robert J., 1897, LL. B., Hamilton, O.
- Sharp, Charles C., 1888, C. E., Ganley Bridge, W. Va., Engineer and Manager of Boomer Mines.
- Sharp, David Barton, 1893, LL. B., Columbus, 1477 Pennsylvania avenue, attorney.
- Shaw, Edward Lee, 1902, B. Sc. (Agr.), Durham, New Hampshire, Asst. Professor of Agriculture, New Hampshire College.
- Shaw, Harry R., 1901, B. Ph., Zanesville, O.
- Shaw, Lucian, 1904, C. E., West LaFayette, O.

- Sheets, Nellie Florence, 1904, B. A., Columbus, Assistant Principal, Wauseon, Ohio.
- Shellabarger, Marley Rolin, 1897, B. Sc. (Agr.), Union, O., general farming.
- *Shepard, Frank Reed, 1893, B. A., died August, 1893.
- Shepard, Harvey Leonard, 1903, B. Sc. (Chem.), Hanover, Germany, Student in chemistry, Hanover University.
- Shepherd, Charles W., 1900, C. E.
- Sherman, Christopher Elias, 1894, C. E., Columbus, 772 Oak street, professor in Civil Engineering, State University.
- Sherman, John King, 1901, C. E., assistant on Engineering Corps P. C. C. & St. L. Ry., Pittsburg, Pa., Room 1114 Union Station, 1013 Penn avenue.
- Sherman, Thomas M., B. Sc. (National Normal University, 1898), 1903, LL. B., Canal Winchester, O., Superintendent of Schools.
- Shield, Wallace B., 1898, B. A., Fellow in International Law, Columbia University, New York City.
- Shoemaker, Carl David, 1904, B. A., Napoleon, O.
- *Short, Sidney H., 1880, B. Sc.
- Schuck, Carey Lucas, 1898, B. Ph., Monessen, Pa., newspaper editor.
- Shurtz, Olive L., 1898, B. Ph., Columbus, 316 West Eighth avenue, Stenographer in Adjutant General's Office, State House.
- Siebert, Wilbur H., 1888, B. A. (B. A., 1889, M. A., 1890, Harvard), Columbus, 182 W. Tenth ave., Professor European History, Ohio State University.
- Sigerfoos, Charles Peter, 1889, B. Sc., 1897, Ph. D. (Johns Hopkins University), Minneapolis, Minn., professor of Zoology, University of Minnesota.
- Sigerfoos, Edward, 1891, B. Ph., Plattsburg Barracks, N. Y., Captain and Adjutant in Fifth U. S. Infantry.
- Sill, Edgar Townsend, 1904, M. E. in EE., Fostoria, O.
- Simonton, Mark, 1895, M. E. in EE., Columbus, treasurer and general manager Electric Supply and Construction Co.
- Simpson, Abigail Ellen, 1895, B. A., Columbus, 204 Wilbur avenue, Instructor in English, North High School.
- Simpson, Warner Pike, 1902, B. Ph., Columbus, 269 E. Broad street, State College Agent, Champlin Printing Company.
- Singleton, Charles Tod, 1900, B. Ph.
- Singleton, Fred., 1904, M. E., Columbus, 115 Starr avenue.
- Sinks, Frederick Nicholas, Ph. B. (Yale University), 1898, LL. B., Columbus, Miller avenue, attorney-at-law.
- Skiles, Roscoe Carleton, 1901, LL. B., Shelby, 1266 East Main street, Mayor of Shelby and attorney-at-law, "Skiles, Green & Skiles."
- Skimming, Wilbert Babb, 1904, B. Sc., Wilmington, O.
- Skinner, Charles E., 1890, M. E., Pittsburg, Pa., 424 Franklin avenue, Sta. D, Westinghouse E. & M. Co.
- Slater, Burr Homer, 1895, G. Ph., Chesterville, pharmacist.
- Sloctemyer, Carl Frederic, A. B. (St. Xavier College), 1903, M. E. in EE., Columbus, 64 West First avenue, Switchboard Designer.
- Slyh, Emma Almeida, 1892, B. Sc., (Mrs. Wm. H. Baker), Trenton, Missouri, R. F. D., No. 3.
- Smead, Annie Elizabeth, 1904, B. A., Columbus, Institution for the Blind.
- Smith, Albertine, 1900, B. Ph., Columbus, teacher in Public Schools, 489 King avenue.
- Smith, Alice May, 1897, B. Ph., Teacher in Central High School.
- Smith, Burton Griffin, 1895, G. Ph., chemist for Columbus Pharmacal Co., Columbus, O.
- Smith, Carl Clyde, 1890, B. Ph., Berthoud, Colorado, Principal of Schools.
- Smith, Clarence Elmer, 1898, G. Ph., M. D. (O. M. U., '01), Warren, O., physician.
- Smith, David William, 1899, C. E., Columbus, 884 McAllister ave., engineer Hocking Valley Ry. Co.
- Smith, Edward E., 1897, G. Ph., Indian Territory.
- Smith, Edward Trevitt, 1898, LL. B., Columbus, O., M. & M. Bank Bldg., attorney.
- Smith, Florizel, 1880, B. A., Spahr Building, Columbus, attorney-at-law, 970 Bryden Road.
- Smith, Harry Ford, 1902, M. E., Lexington, O., manager Electric Light Plant.
- Smith, Horace Prescott, 1886, B. Sc.

*Dead.

- Smith, Maud Virginia, 1894, B. A. (Mrs. Thomas Chalmers), Manchester, New Hampshire, 590 Beach street.
- Smith, Myron Alphonso, 1892, B. Ph., Columbus, 52½ North High street.
- Smith, Nathaniel B., 1893, D. V. M.
- Smith, Philo Christopher, 1885, B. Sc., Middlebranch, farmer.
- Smith, Philotas Mottier, A. B. (Franklin College), 1903, LL. B., Lakewood, O., attorney-at-law.
- Smith, Roy Brooke, 1904, M. E., Columbus, 1528 Neil avenue.
- Smith, Virginia Roletta, 1900, B. Ph. (Mrs. Raymond McCallum), Montgomery, Michigan.
- Smith, Warren Lee, 1899, LL. B., B. A. (Wooster University), Columbus, O.
- Snider, Charles M., 1897, B. Sc. (Ind. Arts), Columbus, 1259 Hunter street, draftsman, Jeffrey Mfg. Co.
- Snider, Jesse Worthington, 1893, LL. B., 1896, LL. M., Columbus, Board of Trade, attorney.
- Snively, Harry H., 1895, B. A., 1903, M. A., Columbus, M. D. (Ohio Medical University), North High street, physician.
- Snow, Mason J., 1902, LL. B., Columbus, 1536 Neil avenue.
- Snow, Walter A., 1897, B. Ph., Oak Park, Minneapolis, Minn., pastor Congregational church.
- Snyder, Addison Hogan, 1901, B. Sc. (Agr.), Washington, D. C., Bureau of Soils, U. S. Department of Agriculture, Soil Expert.
- *Snyder, Henry, 1879, B. Sc., 1892, M. Sc. Died September, 1898.
- Snyder, James Edward, 1892, LL. B. (B. A., Wooster University), Burbank, O.
- Snyder, Walter S., 1897, LL. B., Columbus 105½ S. High street, attorney.
- Sola, Ernesto, 1904, D. V. M., Salta, Arg. Rep.
- Somermeier, Edward Everett, 1898, G. Ph., student at Charlottenburg, Germany.
- Sosman, Robert Browning, 1903, B. Sc. (Chem.), Boston, Mass., student in Mass. Institute of Technology.
- Souder, Charles Granville, 1903, B. Sc., Baltimore, Md., medical student, Johns Hopkins University.
- Southard, Eustace Elden, 1895, G. Ph., Columbus, 470 Oak street, pharmacist.
- Southard, Thomas Campbell, 1896, B. A., Columbus, 470 Oak street, Manufacturer of Advertising Novelties.
- Sparks, Edwin Earle, 1884, B. A., 1892, M. A., 1900, Ph. D., Chicago University, Professor, Chicago, Ill.
- Sparks, Homer Haven, 1902, LL. B., Newark, O.
- Spencer, William Henry, 1891, G. Ph., Sandusky, with Strong and Spencer.
- Spencer, Ralph Oliver, 1899, B. A., Columbus, 109 N. Fourth street.
- Sperr, Frederick W., 1883, E. M., Houghton, Mich., Professor of Civil and Mining Engineering, Michigan School of Mines.
- *Sperry, Wilmot, jr., 1901, B. Ph., died February, 1903.
- Spitler, Grover Otterbein, 1904, B. Sc. (Chem.), Findlay, O.
- Sprague, Charles Franklin, 1896, B. A., 1899, LL. B., Lima O., Metropolitan Block, attorney.
- Sprague, Clarence Milton, 1899, C. E., Pittsburg, Pa., 1013 Penn avenue, assistant on Engineer's Corps P. C. C. & St. L., Pittsburg Division.
- Sprague, William Ralph, 1899, B. Ph., Portsmouth, O., attorney-at-law.
- Sproat, Amasa Delano, 1902, E. M., Mexico, San Luis Potosi, Apartado 132, assistant chemist, Compania Metallurgica, Mexicano.
- Sproat, Martha Evans, 1903, B. Ph., Urichsville, O., teacher of Latin and German, High School.
- Spurrier, Emery Allen, 1903, LL. B., Tiffin, O., attorney-at-law.
- Spurrier, John Randolph, 1896, M. E. in EE., Eng., Stratford, 295 Urmston Lane, foreman Detail Division of Mechanical Department of British Westinghouse E. & M. Co.
- Stahl, Charles Henry, 1902, LL. B., Winesburg, O.
- Staley, Homer F., 1904, B. A., Columbus, 1337 Wesley avenue.
- Staley, Marcellus, 1899, M. E. in EE., New York City, 158 West Sixty-second street, firm of Staley & Gillespie, Electrical Contractors, 395 West Broadway.
- Stanberry, Charles L., 1892, G. Ph., pharmacist, McConnellsville, O.
- Stanton, Frederick Moses, 1904, B. Sc., (Chem.), Waynesville, O.

*Dead.

- Starbuck, Daniel Carl, 1899, M. E. in EE., Schenectady, N. Y.
- Stauffer, Clinton Raymond, 1903, B. Sc., Cuyahoga Falls, O., Principal of High School.
- Steeb, Carl Eckert, 1899, B. Ph., Columbus, 1437 Hunter street, accountant, O. S. U.
- Stellhorn, Adolf, A. B. (Capital University), 1903, C. E., Newcastle, Pa., civil engineer.
- Stephenson, Bertram Shearer, 1901, B. Ph., Columbus, O., Columbus "Citizen."
- Stephenson, Henry Thew, 1894, B. Sc., Bloomington, Ind., Asst. Professor of Eng. Lit. at University of Indiana.
- Stevens, Frank M., 1897, LL. B., Elyria, 232 Ely-Power Bldg., attorney-at-law.
- Stevenson, Anos Claude, (A. B., Oberlin College), 1900, LL. B.
- Steward, Charles Benjamin, 1900, B. Sc. (Agr.), Canal Winchester, R. R. No. 2, stock farmer and breeder of Shorthorn cattle and Poland China swine.
- Stewart, Edwin Earle, 1895, LL. B., A. B. (Wittenberg College), (M. A., Antioch College), attorney, Springfield.
- Stewart, Gilbert Holland, jr., 1903, LL. B., Columbus, "The Normandle," attorney.
- Stewart, Hartford Toland, 1896, M. E. in EE., agent General Electric Co., Columbus, 846 E. Broad street.
- Stewart, Lee Raymond, 1896, C. E., engineer in charge of Mould Loft, N. Y. Ship Building Co., Camden, N. J.
- Stewart, Alton LeRoy, 1904, M. E. in EE., Findlay, O.
- Stiger, Thomas A., 1899, LL. B., Everett, Washington, County Superintendent of Schools and Editor of Washington School Bulletin.
- Stimson, Charles Leslie, 1899, B. A., Columbus, 737 Bryden Road.
- Stimson, George, 1900, B. A. Columbus, 737 Bryden Road, student Medical Department, University of Pennsylvania.
- Stinebaugh, Isaac Long, 1892, C. E., surveyor and civil engineer, Rockaway, O.
- Stocker, James Arthur, 1902, C. E., Charleston, W. Va., 151 Summers street, assistant engineer on Kanawha & Michigan Ry.
- Stone, Carlton Elijah, 1899, C. E., Cincinnati, O., 405 Customs House, junior civil engineer U. S. Engineer Department.
- Stone, Thomas Wade, M. E. 1902, Ft. Wayne, Ind., 1504 Hurd street, chief draftsman, Western Gas Construction Co.
- Storer, Norman Wilson, 1891, M. E. in EE., Pittsburg, Pa., 6109 Howe street, Westinghouse E. & M. Co.
- Storer, Simon B., 1893, M. E. in EE., Syracuse, N. Y., engineer and salesman, Westinghouse E. & M. Co.
- Stouffer, Charles Irwin, 1893, LL. B., Columbus, The "Marechal-Neil" Flats, attorney.
- Stoughton, George L., 1895, LL. B. (B. A., Otterbein University), Westerville, O.
- Stull, Emmett Willet, 1894, M. E. in EE., Cincinnati, O., Bullock Electric Co.
- Stull, Ray Thomas, 1902, E. M., chemist, American Terra Cotta and Ceramics Co., Terra Cotta, Ill.
- Stump, Franklin Pierce, 1892, B. Agr., Convoy, O., farmer.
- *Stump, John William, 1895, C. E., died May 31, 1900.
- Stump, William Lisle, 1897, G. Ph., 1898, M. Ph., Marion, O., pharmacist with M. D. Dumble.
- Sullivan, Frances Augusta, 1904, B. Sc., (Dom. Sc.), New Carlisle, O.
- Surface, Frank Macy, 1904, B. A., Eaton, O.
- Surface, Harvey Adam, 1891, B. Sc., 1892, M. Sc., professor Biology Pennsylvania State College, State College, Pa.
- Sutherland, Margaret, 1898, B. Ph. (Mrs. Benjamin Flynn), Columbus, 45 N. Seventeenth street.
- Sutphen, James Leonard, 1897, G. Ph., Columbus, 673 Livingston avenue, pharmacist.
- Swaney, Sara Campbell, 1902, B. Ph., Columbus, O., journalist.
- *Swartzel, Earl Glenn, 1895, B. Sc., died March, 1899.
- Swartzel, Karl Dale, 1893, B. Sc., 1894, M. Sc., Columbus, Assistant Professor of Mathematics, State University, 318 W. Sixth avenue.
- Swisher, William Henry, 1896, G. Ph., M. D., Dayton, O., 1463 West Third street, physician.

*Dead.

Sykes, William Edgar, 1898, LL. B., A. B. (Marietta College), Marietta, attorney.

Sylvester, John E., jr., 1898, B. Ph., Wellston, editor "Wellston Telegram."

T

Talbot, Ellen B., 1890, B. A., Ph. D. (Cornell), Berlin, Germany, student, University of Berlin.

Talbot, Herbert Swan, 1898, B. Ph., Columbus, Ohio Institution for Feeble-Minded.

Talbot, Mignon, 1892, B. A., South Hadley, Mass., Instructor in Geology, Mount Holyoke College.

Tangeman, Clara Margaret, 1904, B. Sc., (Dom. Sc.), New Bremen, O.

Tangemann, Henry Theodore, 1902, LL. B., New Bremen, O., attorney-at-law.

Tanner, Elwood Wood, 1902, M. E., Canton, O., draftsman, The Aultman Co.

Tanner, John Robert, 1900, LL. B., Mt. Sterling, O., attorney.

Tatje, Oral D., 1903, B. Ph., Columbus, student, Starling Medical College.

Taylor, Arthur W., 1894, E. M., Cleveland, 248 Crawford Road, chemist for Otis Steel Co., Ltd.

*Taylor, Francis Asbury, 1885, B. A., died July 25, 1891.

Taylor, Alexander R., 1895, B. Sc.

Taylor, Bessie Batelle, 1902, B. Ph., Bladenburg, O.

Taylor, Frederic Wellington, 1900, B. Sc. (Agr.), Durham, N. H., Prof. of Agr., N. H. State College.

Taylor, Mary Hill, 1903, B. Ph., Columbus.

Taylor, Ralph Buren, 1895, B. A., M. D., (Eclectic Medical Institute, Cincinnati), 124 West Eighth avenue, Columbus.

Taylor, Joseph Russell, 1887, B. A., M. A. (Columbia University), Columbus, 448 West Seventh avenue, Associate Professor of English, State University.

Taylor, Pearl V., 1897, B. A., Columbus.

Taylor, William Harry, 1902, B. Ph., Columbus, 1501 Neil avenue.

Taylor, Wm. O., 1904, M. E. in EE., Urbana, O.

Templin, John Richard, 1903, M. E., Columbus.

Teter, Anstie Welsh, 1896, G. Ph., Bainbridge, pharmacist.

Teter, J. Sumner, 1901, B. Sc., M. D., (Starling Medical College, 1904), Columbus.

Thomas, Edward, 1904, B. Sc., (Chem.), Navarre, O.

Thomas, Phillips, 1904, B. Sc., Columbus. University Grounds.

Thomas, James O., 1897, C. E., Columbus, 404 West Goodale, wire chief Central Union Telephone Co.

Thomas, Lawrence David, 1900, B. Ph., Lancaster, teacher in High School.

Thompson, Bessie Agnes, 1904, B. A., Columbus, O. S. U. Grounds.

Thompson, Carmi A., B. Ph., 1895, LL. B., Ironton, 151 Center street, city solicitor.

Thompson, Howard N., 1888, B. Ph., St. Petersburg, Russia, Correspondent of Associated Press.

Thompson, Roy Washington, 1903, B. Ph., New York City, 115 West Twelfth street, with American Felt Company.

Thrower, John Dudley, 1904, D. V. M., Mayhew, Miss.

Tilton, Josephus Howard, 1901, B. Ph., Columbus, 35 West Ninth avenue, teacher.

*Tomlinson, James Rowe, 1892, C. E., died Nov. 17th, 1903, at Chillicothe, O.

Towne, Robert S., 1879, B. Sc., 1880, E. M., New York, N. Y., Beaver street, "Flat Iron" Bldg., President Compania Metallurgica Mexicana.

Townshend, Alice Margaret, 1880, B. A. (Mrs. Charles Wing), Columbus, 231 West Tenth avenue.

Townshend, Arthur Bailey, 1878, B. Sc., M. D., 33 West Thirty-Third street, New York, N. Y., physician.

Travis, Fred Lant, 1900, B. A., St. Louis, Mo., 803-807 Commonwealth Trust Bldg., attorney.

Travis, John F., 1900, B. A., 1902, M. A., Ames, Iowa, Instructor in Mathematics, Iowa State College of Agriculture and Mechanic Arts.

Treash, Phillip Burdell, B. Ph. (Oberlin), 1903, LL. B., Akron, 25 Byers ave.

*Dead.

- Tressel, Laura Amelia, 1904, B. A., Greenville, O.
 Tufts, Charles Hill, 1899, E. M., Pittsburg, Pa., Fifteenth and Pennsylvania avenue, chief chemist for American Steel and Wire Co, Shoenberger Works.
 Tupper, Eugene L., 1893, G. Ph., Ottawa, physician.
 Turner, Arthur M., 1893, M. E. in EE., 281 Oak street, Chicago, Ill.
 Turner, Bertha Louise, 1903, B. Ph., Columbus, attending normal school.
 Turner, Edward C., 1901, LL. B., Columbus, 1904, LL. M., 366 Linwood avenue.
 Turner, Frederick Lewis, 1897, B. A., 1898, M. A., Oak Park, Ill., 449 North Boulevard, teacher of Latin, Oak Park High School.
 Tuttle, Hubert Alonzo, A. B., A. M. (U. of Mich.), 1904, LL. B., Columbus.
 Twiss, Edith Minot, 1895, B. A., Cleveland, teacher in West High School.
 Twiss, George R., 1885, B. Sc., Cleveland, teacher of Physics in High School, 56 Mayfield Road.
 Twiss, Marion Evans, 1897, B. A., (Mrs. William G. Smith), Rogers Park, Chicago, Ill.
 Twitchell, Lee Downs, 1903 B. Sc. (H. & F.), Mansfield, O.
 Tyler, Frederic Jared, 1900, B. Sc. (H. & F.), 1902, M. A., Washington, D. C., 142 "A" street, N. E., Division of Botany, U. S. Department of Agriculture, Scientific Aid.

U

- Uncles, Margaret Anna, 1897, B. A., Columbus, 31 Gill street.
 Underwood, Ella, 1898, B. A. (Mrs. O. A. Davis), Alliance.
 Urban, Harry Marshall, 1898, C. E., Wheeling, W. Va., department engineer,, Riverside Department, National Tube Co.

V

- Vail, Charles A., Ph. B. (Scio College), LL. B., 1902, Scio, O.
 Vance, Mary Grace, 1898, B. A., Cleveland, O., teacher, East Cleveland High School.
 Vandervoort, William P., 1886, E. M., Morrow, O., superintendent public schools.
 Van Dyke, Clifford S., 1902, M. E. in EE., Ansonia, O., merchant.
 *Van Harlingen, Edward M., B. Sc., 1883, M. Sc., 1897. Died 1900.
 Van Tine, Charles Hovey, 1903, M. E., Columbus, 169 W. Eleventh avenue, M. E., Col. R'y. & Light Co.
 Veneman, Nevin Edward, 1902, LL. B.
 Viets, Willis B., 1886, E. M., Parryville, Pa., chemist, Carbon Coal and Iron Co.
 Vinson, Albert Earl, 1901, B. Sc., Göttingen, Germany.
 Voke, Lewis F., 1893, G. Ph., M. D., (Starling Medical College), physician, France Medical Institute, Columbus.
 Voorhees, Burt Fisk, 1894, LL. B., Coshocton.
 *Voorhees, Charles W., 1892, LL. M. (B. Sc., Scio College). Died 1898.
 Voorhees, Isaac M., 1894, B. Ph., journalist, editor of "Harrison News."
 Vornholt, Julius Franklin, 1898, B. A., Marion, Indiana, minister.
 Vosskuehler, Joseph H., 1900, M. E., instructor in Architecture, State University, Columbus, 54 West Tenth avenue.

W

- Wacker, Alma Henrietta, 1904, B. A., Columbus, 654 S. High street.
 Wadsworth, F. L. Olcott, 1888, B. Sc., 1889, E. M., M. E., director of Allegheny Observatory, Allegheny, Pa.
 Wagstaff, Edward A., 1893, G. Ph., Niles, pharmacist, Jones & Wagstaff.
 Waid, Clarence William, 1898, B. Sc., (H. & F.), assistant Horticulturist O. A. E. S., Wooster, Ohio.
 Walker, Frederick William, 1896, B. A., Columbus, 46 North Lazelle street.
 Walker, James Madison, 1896, C. E.
 Walsh, Annetta Curtis, 1897, B. A., Columbus, 148 Buttles avenue.
 Walsh, Frances Lyon, 1903, B. A., Columbus, 148 Buttles avenue.
 Walsh, Mary Helen, 1896, B. Ph., Columbus, 148 Buttles avenue.

*Dead.

- Ward, J. C., 1880, B. A., Painesville, engineer and surveyor.
 *Ward, Lila Lucile, 1901, B. Ph., died, January 11th, 1904.
 Ward, Philip Emerson, 1899, B. Ph., Willoughby, Principal of High School.
 Ward, Samuel Edwin, 1904, M. E., Greenspring, O.
 Ward, Vernon Champlin, 1903, M. E., Chicago, Ill., 1359 Sunnyside avenue.
 Warden, Leonard C., 1899, B. Sc. (H. & F.), Beach Park, Ohio, proprietor of general store.
 Warner, Cora, 1882, B. Ph., corner Hubbard and Dennison avenues, Columbus.
 Warner, John Howell, 1903, B. A., Columbus, General Secretary, Y. M. C. A. of O. S. U., Association House, 136 West Tenth avenue.
 Warren, Arthur Robert, 1893, LL. B., Columbus.
 *Warren, Grant Alexander, 1894, LL. B.
 Watson, Benson Gruber, 1896, B. Ph., Columbus, "The Garland," attorney.
 Watson, Edward T., 1897, B. Sc., broker, Charleston, W. Va.
 Watt, Stern P., 1886, M. E., vice president and mechanical expert Hine-Watt Mfg. Co., Morgan Park, Ill.
 Watters, Burr Sells, 1904, M. E., Columbus, 847 Dennison avenue.
 Way, Lynn J., 1904, D. V. M., Youngstown, O.
 Weaver, Mary Luretta, 1891, B. Ph., 231 Church street, Urbana.
 Weaver, Harry Bright, 1894, LL. B. (B. A., Ohio Wesleyan University), Circleville, attorney.
 Weaver, Mina Jacobs, 1903, B. Ph., Tippecanoe City, O., Teacher of English in High School.
 Webb, Edward Nathan, 1902, B. Sc., 1904 M. A., Columbus, O., 144 West Ninth avenue.
 Webb, Scott Anderson, 1888, B. Ph., Columbus, attorney-at-law, 222 King avenue.
 Webber, Frank Merrill, 1903, M. E. in EE., West Richfield.
 Webber, Karl T., 1897, LL. B., Columbus, asst. pros. attorney, 2585 West Broad.
 Weber, Frederick Clarence, 1901, B. Sc. (Chem.), Washington, D. C., Scientific Asst. in Chemistry, Bureau of Chemistry, U. S. Dept. Agr.
 Weber, Mary Isabelle, 1904, B. A., North Broadway.
 Weick, Carrie Rosina, 1901, B. Sc.
 Weick, Charles William, 1898, B. Sc. (Ind. Arts), New York, instructor Manual Training, Teachers College.
 Weldner, George F., 1887, G. Ph., Columbus, Kauffman-Lattimer Co.
 Weinland, Edgar Lynn, 1893, LL. B. (B. Ph., Otterbein University), Columbus, attorney, 428 West Sixth avenue.
 Weisman, Laura A., B. Sc. (Dom. Sci.), (Mrs. C. W. Burkett), West Raleigh, N. Carolina.
 Welch, Clark J., 1888, C. E., bridge and structural engineer, 11 Broadway, New York.
 Welch, Oliver Bartlet, 1895, M. E. in EE., Pittsburg, Pa., box 1618, Mechanical Engineer.
 Weld, Harry P., 1900, B. Ph., Nashville, Tenn., 36 Rutledge street, Director of Music, University of Nashville and Peabody College for Teachers.
 Wellbaum, Arvy Elroy, 1902, M. E., Springfield, O., draftsman, Morgan Engineering Company, Belmont avenue and Mound street.
 Welling, Faith Cornelia, 1901, B. A., Worthington, Teacher in North High School, Columbus.
 Wendt, William Carl, 1889, G. Ph., 901 South High street, Columbus, W. C. Wendt & Co., pharmacists.
 Wertz, Edwin Slusser, 1899, B. Ph., 1900, LL. B., Dalton, O.
 West, Earle Downs, 1900, B. A., Beaver, Pa., Beaver College, Teacher of Mathematics.
 West, Frederick Rollin, 1901, LL. B., Columbus, W. Woodruff avenue.
 Wharton, Homer Franklin, (B. Sc., Muskingum College), 1901, LL. B., Washington.
 Whetstone, Arnot Wilson, B. Ph. (Otterbein Univ.), 1903, M. A., Van Buren, O.
 Whetsel, James Anderson Garfield, 1903, B. A., South New Lyme, O., teacher of Science and Mathematics, New Lyme Institute.
 Whitacre, Horace J., 1891, B. Sc., 1895, M. D., (Columbia University), Cincinnati (Mt. Auburn), physician, 22 W. Seventh street.
 Whitacre, Marion, 1894, B. Sc., 1899, M. D. (Columbia University), Cincinnati, physician.

*Dead.

- Whitaker, William Earl, 1901, B. Ph., St. Louis, Mo., 3133 Pine street.
- White, David S., 1890, D. V. M., Professor and Dean, College of Veterinary Medicine, State University, Columbus, West Fifth avenue.
- Whiteside, John Wesley, 1901, B. Ph., Bloomingburg, O.
- Whitwood, Luther Dawson, 1904, D. V. M., Canister, N. Y.
- Wiggins, Sherman Tecumseh, 1894, LL. M. (LL. B., University of Michigan), 1897, B. Ph., Ardmore, Indian Territory, attorney-at-law.
- Wikoff, John Burkett, 1884, B. Ph., Cambridge, assistant to general manager Cleveland & Marietta Railway Co.
- Wilcox, Alvah Newton, 1895, M. E., Dayton, Pinneo & Daniels Co.
- Wilcox, Carl Clifford, 1903, M. E., Saginaw, Michigan, Saginaw Valley Traction Co.
- Wilcox, Edwin Mead, 1896, B. Sc. (Harvard University, 1899, Ph. D.), Auburn, Alabama, Professor of Botany, Alabama Polytechnic Institute.
- Wilcox, McAllister, 1898, LL. B., Columbus, O.
- Wildermuth, Roy Lee, 1899, LL. B., Columbus, Judge of Police Court, 123 W. Third avenue.
- Wilgus, Horace Lafayette, 1882, B. Sc., 1884, M. Sc., Ann Arbor, Mich., Professor of Law, University of Michigan, 1547 Washtenau avenue.
- Wilgus, James A., 1888, B. Ph., M. A., Plattville, Wis., Professor of History and Economics in the State Normal School.
- Wilkinson, John Anderson, 1903, B. Sc., Piqua.
- Williams, Anna Ernestine, 1899, B. Ph. (Mrs. Gould Murfin), Los Angeles, California.
- Williams, Clara M., 1900, B. Ph., (Mrs. Frank Schaff), Louisville, Ky.
- Williams, Guy Rulon, 1895, LL. B., New Vienna, O.
- Williams, Harry Ernest, 1902, M. E., Union Pacific Ry., special apprentice, Omaha, Neb., 921½ South Thirteenth street.
- Williams, Herbert Oswald, 1894, B. A., 1900, M. A., Pomona, California, 276 West Holt avenue, Teacher of Latin and German in High School.
- Williams, John Clark, 1904, B. A., Walnut Grove, O.
- Williams, Lloyd Thomas, 1896, B. Ph., 1900, LL. B., Toledo, attorney, 418 Valentine Bldg., with "Brown & Geddes."
- Williamson, Allen Thurman, A. B. (Marietta College), 1901, LL. B., Marietta, 324 Second street, attorney.
- Williamson, Edward Bruce, 1898, B. Sc., Bluffton, Ind.
- Williamson, Homer Davison, 1901, B. Sc. (Chem.), chemist Ohio State Board of Health and Starling Medical College, 133 W. Tenth avenue.
- Wilson, Harry Rush, 1895, LL. B. (B. A., Mt. Union College), 1896, LL. M., Columbus, 1543 E. Main street, attorney.
- Wilson, Frank, (B. Sc., Scio College), 1900, LL. B., Marietta, O.
- Wing, Lucius Arthur, 1903, B. Sc., Columbus, 231 West Tenth avenue, student, Starling Medical College.
- Winter, Nevin Otto, 1897, LL. B. (B. A., Ohio Wesleyan University), Spitzer Building, Toledo.
- Wirth, Ida M., 1895, B. Ph., Asheville, N. C., in care of Woolsey Hall, R. F. D. No. 1.
- Wirthwein, Louis Philip, 1899, C. E., Columbus, 677 South High street, city engineer's office, assistant city engineer.
- Wise, Albert Joseph, 1898, C. E., Houston, Texas, 1717 San Jacinto street, civil engineer, Wilson Building.
- Wise, Charles Clifton, LL. B., B. Ph. (Hiram College), Cleveland, O., attorney, McMillen & Ingersoll, Williamson Bldg.
- Wolcott, Roy C., 1895, B. Ph., 1896, M. D.
- Wolf, Herman Howard, 1895, C. E., Lieut. U. S. Revenue Cutter Service, Washington D. C., care Treasury Department.
- Wood, Francis Carter, 1891, B. Sc., 205 W. 57th street, New York City, Surgical Registrar and Pathologist to St. Luke's Hospital and Instructor in Clinical Pathology at Columbia University.
- Wood, Kenneth Dodge, 1881, B. A., Columbus, secretary of the Central Ohio Paper Company, East Gay street.
- Wood, Willard B., 1893, B. Sc., Columbus, in Columbus Postoffice.
- Woods, Charles H., 1900, LL. B., Guthrie, Oklahoma, Law Dept., Atchison, Topeka & Santa Fe Railway System.
- Woods, William Burroughs, 1902, B. Ph., 1904, LL. B., Columbus, O., 15th avenue and Indianola, student O. S. U. Law School.

- Woodworth, Henry Julian, 1887, B. Sc., Haydenville, O., Sec. and Treas. of Haydenville Co.
Worcester, Wood Frank, 1899, B. Ph., 1901, LL. B., 1903, LL. M., Columbus, O., 20 E. Broad street, in law office of Samuel J. Swartz.
Workman, Charles, 1896, B. A., Columbus, 227 N. Seventeenth street, Traveling Salesman, Ohio Tea Co.
Wright, Burr Roscoe, 1897, B. Ph., Peebles, O.
Wright, Carrie, 1892, B. Ph., Chicago, Ill., teacher in the Armour Institute.
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*The State has no material resources at all comparable with its citizens and no hope of
perpetuity except in the intelligence and integrity of its people.*

Volume X

Number 4

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OHIO STATE UNIVERSITY

BULLETIN

THIRTY-FIFTH REPORT

OF THE

BOARD OF TRUSTEES

TO THE

GOVERNOR OF OHIO

JANUARY, 1906

PUBLISHED MONTHLY BY THE UNIVERSITY
COLUMBUS

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THIRTY-FIFTH ANNUAL REPORT

OF THE

BOARD OF TRUSTEES

OF THE

Ohio State University

TO THE

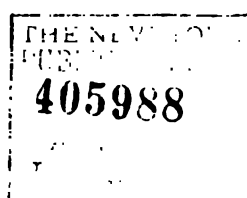
Governor of Ohio

FOR THE

Year Ending June 30, 1905.



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1906.



11

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*RUDOLPH HIRSCH.....	1060 South Front Street.
<i>Instructor in Agricultural Chemistry.</i>	
EDGAR HOLMES MCNEAL.....	1473 Neil Avenue.
<i>Instructor in European History.</i>	
JOHN SATTERLEE TIDBALL.....	35 Price Street.
<i>Instructor in Architecture and Drawing.</i>	
HENRY RUSSELL SPENCER.....	1473 Neil Avenue.
<i>Instructor in American History and Political Science.</i>	
GEORGE WASHINGTON RIGHTMIRE.....	1418 Michigan Avenue.
<i>Instructor in Law.</i>	
CATHERINE EMILY ANDREWS.....	1013 East Broad Street.
<i>Instructor in Chemistry.</i>	
E. S. GUTHRIE.....	80 West Eighth Avenue.
<i>Instructor in Butter-making.</i>	
RALPH ROGERS.....	80 West Tenth Avenue.
<i>Instructor in Architecture and Drawing.</i>	
HARRIET TOWNSHEND.....	53 West Eleventh Avenue.
<i>Assistant in Library.</i>	
MAUD DOROTHY JEFFREY.....	161 Fourteenth Avenue.
<i>Assistant in Library.</i>	
GERTRUDE STOWELL KELLICOTT.....	156 West Sixth Avenue.
<i>Assistant in Library.</i>	
MARTHA HARTFORD.....	65 West Eleventh Avenue.
<i>Assistant in Library.</i>	
RAYMOND JESSE SEYMOUR.....	1311 Highland Street.
<i>Assistant in Anatomy and Physiology.</i>	

* Resigned.

- BENJAMIN FRANKLIN MAAG.....176 West Ninth Avenue.
Assistant in Astronomy.
- ROSS C. PURDY.....112 West Lane Avenue.
Assistant in Ceramics.
- *HARLAN H. YORK.....University Grounds.
Assistant in Botany.
- E. F. MANGOLD.....68 East Maynard Avenue.
Assistant in Dairy Laboratory.
- CLINTON GEORGE STEWART.....1287 Bryden Road.
Assistant in Chemistry.
- *CYRUS ALAN MELICK.....
Assistant in Civil Engineering.
- *THURMAN WELFORD HOLLOWAY.....
Assistant in Mechanical Engineering.
- *HERBERT S. ARKELL.....
Assistant in Animal Husbandry.
- HIRAM DOUTHITT AYRES.....192 West Eighth Avenue.
Assistant in Physics.
- HOWARD RODOLPHUS WATKINS.....
Assistant in Chemistry.
- DANA JAMES DEMOREST.....93 West Eleventh Avenue.
Assistant in Metallurgy and Mineralogy.
- *MARY DENVER JAMES.....
Assistant in Romance Languages.
- *RAY SHARP BLINN.....
Assistant in Civil Engineering.
- C. W. BAUMAN.....
Assistant in Cheese Making.
- JOHN ROSS CHAMBERLAIN.....226 West Ninth Avenue.
Assistant in Civil Engineering.
- CAROLINE MARTHA CARMACK.....West Sixth Avenue.
Temporary Assistant in Botany.
- MARY MOLLOY.....1546 Highland Street.
Fellow in English.
- JAMES ANDERSON BEER.....226 West Eighth Avenue.
Fellow in Anatomy and Physiology.

* Resigned.

MAX DELOS MORTON.....	212 West Tenth Avenue. <i>Fellow in Library.</i>
MIMA JACOBS WEAVER.....	<i>Fellow in English.</i>
GERTRUDE SEE JACKSON.....	89 North Twentieth Street. <i>Fellow in English.</i>
CLARENCE CHARLES VOGT.....	131 West Eighth Avenue. <i>Fellow in Chemistry.</i>
JOHN SCOTT RIDDILE.....	<i>Fellow in Electrical Engineering.</i>
JOHN MCBRIDE KNOTE.....	307 West Ninth Avenue. <i>Fellow in Chemistry.</i>
JOSEPH EPHRIAM BEAL.....	<i>Fellow in German.</i>
ROBERT OSCAR BUSEY.....	<i>Fellow in German.</i>
ROSALIE TELFAIR JAMES.....	<i>Fellow in Romance Languages.</i>
*ERNEST AVERY SANDERS.....	<i>Fellow in Zoology and Entomology.</i>
FRANK MACY SURFACE.....	<i>Fellow in Zoology and Entomology.</i>
*MARY ANN MCKINLEY.....	<i>Fellow in Botany.</i>
HENRY ALLAN GLEASON.....	186 West Ninth Avenue. <i>Fellow in Botany.</i>

* Resigned.

ADMINISTRATIVE OFFICERS

THE UNIVERSITY

- WILLIAM OXLEY THOMPSON, D. D., LL. D.....*President.*
Office, University Hall.
- CARL E. STEEB, B. PH.....*Secretary of the Board of Trustees and Bursar.*
Office, University Hall; office hours 8 to 12 a. m.; 2 to 5 p. m.
- WILBUR H. SIEBERT, M. A.....*Secretary of the University Faculty.*
Office, University Hall.
- EDITH D. COCKINS, B. A.....*Registrar.*
Office, University Hall; office hours 8 to 11:45 a. m.; 1:30 to 4 p. m., except
Saturday.
- KATHARINE H. DUNCAN.....*Executive Clerk.*
Office, University Hall; office hours 8 to 11 a. m.; 1 to 4 p. m.; Saturday,
9 to 11 a. m.
- JOSEPH V. DENNEY, B. A.....*Dean of the Summer Term and Chairman of the*
Entrance Board.
Office, University Hall.
- WILLIAM W. BOYD, M. A.....*High School Visitor and Secretary of the*
Summer Term.
Office, University Hall.
- WILBUR E. MANN, M. A.....*Accountant.*
Office, University Hall; office hours 8 to 11 a. m.; 1 to 5 p. m.
- EDWARD ORTON, JR., E. M....*Chairman of the Committee on Advanced Standing.*
- JAMES E. BOYD, M. S.....*Secretary of the Entrance Board.*
Office, University Hall.
- JOHN A. BOWNOCKER, D. SC.....*Curator of Geological Museum.*
- WILLIAM C. MILLS, B. SC.....*Curator of Archaeological Museum.*
- WILLIAM C. McCracken.....*Chief Engineer.*
Office, Power House.

COLUMBUS, OHIO, October 1, 1905.

His Excellency, HON. MYRON T. HERRICK, Governor of Ohio:

DEAR SIR:— I have the honor to transmit herewith the thirty-fifth annual report of the Board of Trustees, Ohio State University.

Very respectfully, Your obedient servant,

CARL E. STEEB,
Secretary.

ANNUAL REPORT.

OFFICE OF THE BOARD OF TRUSTEES OHIO STATE UNIVERSITY.

JUNE 30, 1905.

HON. MYRON T. HERRICK, *Governor of Ohio*:

SIR:— In accordance with law, the Board of Trustees respectfully submits the thirty-fifth annual report of the Ohio State University, it being for the fiscal year ending June 30, 1905.

ENDOWMENTS

The part of the irreducible debt of the State which forms the principal endowment of the University, at the date of the last annual report, June 30, 1904, was \$577,246.47 upon which the annual interest was \$34,634.79.

Under the operations of an act of the General Assembly entitled "An act to quiet title to unpatented lands in the Virginia Military District of Ohio," passed March 14, 1889, there has been added to the above principal \$7,830.28; from the sale of lot No. 2, Union County, there has been added \$100.00, and from the rents and profits of Page Will Lands, and from the sale of said lands the sum of \$110,657.19 has been added, making the principal endowment fund June 30, 1905, \$695,838.19, on which the annual interest is \$41,750.29.

THE WILLIAM JENNINGS BRYAN PRIZE

July 20, 1898, the Hon. William Jennings Bryan gave to the University \$250.00, the annual interest thereon to be awarded as a prize for the best essay, discussing the principles which underlie our form of government. This amount was placed in the State Treasury under the provisions of Section 4105-15 R. S. of Ohio, and under the operations of Section 4105-47 R. S. of Ohio, this principal has been augmented by additions of interest in years when no prize has been awarded, until at the close of the year covered by this report, the principal sum has become \$340.11, on which the annual interest is \$20.40.

THE ROBINSON FELLOWSHIP IN ENGINEERING

Professor Stillman W. Robinson gave to the University, on January 28, 1905, \$5,000.00 to endow a fellowship in Engineering. As in the case of the Bryan Prize Fund, this amount was placed in the State Treasury,

under the Sections of the Statutes above mentioned, and at the close of this year the principal sum is \$5,414.31.

During the past year this fellowship has been held by Antonio Ribot, who has received, as salary, the interest from said amount.

THE C. NEWTON BROWN SCHOLARSHIP FUND

At the time of the last annual report, this fund, which was started May 18, 1903, with \$1,000, donated by students of the late Professor Brown, had increased to \$1,063.00. December 1, 1904, a further installment of \$92.09 was received, which, added to the principal sum, and interest for this year, makes the fund June 30, 1905, \$1,223.06.

SETH ADAMS MEMORIAL FUND

Professor C. S. Plumb, head of the department of Animal Husbandry, on July 1, 1903, started a popular subscription among the farmers of the State to erect a building for the care of sheep, to be named after the late Seth Adams. This fund started at the above date with \$52.72, and at this time has increased to \$382.26. This amount is in an interest bearing certificate of deposit, placed with a local bank.

RECEIPTS AND DISBURSEMENTS

The receipts and disbursements for the year ending June 30, 1905, are as follows:

RECEIPTS

Balance in treasury June 30, 1904.....	\$12,035 00
Interest on Endowment.....	36,769 01
State Levy	293,582 04
Appropriations Act of Congress 1890.....	25,000 00
Rents	1,779 00
Virginia Military Lands	96 00
Students' Fees	43,034 44
Store Room cards and supplies.....	6,785 00
State appropriation Mines Building.....	16,905 94
State appropriation Chemical Building.....	24,926 42
State appropriation temporary equipment.....	1,659 52
Emergency allowance, Dairy Equipment.....	8,455 35
Veterinary Clinic	928 40
Refunds	138 01
National Brick Manufacturer's Scholarship.....	250 00
Sale of old brick.....	428 50
Old boiler and iron.....	435 02
Siebert Library	200 00
Sale of laboratory supplies.....	875 71
Diploma Fees	1,135 00
Fees Summer Schools.....	1,588 50
Interest special endowments	325 61
Miscellaneous	278 24

Total receipts \$477,610 71

DISBURSEMENTS

Bonds and Interest	\$35,912 50
Salaries instruction	184,831 30
Salaries administration	37,129 52
Transfer Page Will Funds to Endowment.....	5,443 43
New Buildings	103,254 98
Tunnels and sewers	3,766 30
Roads and grounds	4,422 48
Heat, Power and Light, Labor and Materials.....	10,061 58
Fuel	12,087 23
Gas	1,912 30
Oils and gasoline.....	521 70
Water rents	2,963 48
Repairs buildings	12,355 47
Virginia Military Lands agency.....	1,634 50
Expenses Trustees	388 91
Books and Binding	4,393 72
Store Room supplies	8,888 98
Rent Fire-alarm boxes, etc.....	429 00
Commencement expenses	1,156 74
Messenger and guide service.....	387 54
Postage	1,226 88
Stationery and office supplies.....	2,862 56
Printing and advertising	2,260 11
Fee refunds	429 08
Telephones and telegrams.....	917 60
Laboratory supplies	3,486 75
Expenses High School Visitor.....	650 20
Apparatus and Equipment.....	9,650 98
Repairs to apparatus and equipment.....	585 10
Tools and implements	607 17
Repairs to tools and implements.....	108 49
Furniture and fixtures	2,730 27
Freight and cartage	746 23
Laundry work	477 94
Live stock	66 25
Feed	491 58
Extra labor in departments.....	2,451 74
Extra labor janitors	395 15
Extra labor watchman	62 45
Extra labor registrar	157 99
Extra labor library	1,019 24
Extra labor clerical	434 50
Cleaning supplies	433 36
Rent farm lands	505 00
Honorariums	200 00
Auditing accounts	802 27
Printing certificates	370 00
Expenses Summer School Civil Engineering.....	561 00
Traveling expenses	691 59
Incidentals	928 88
Total disbursements	\$468,252 02
Balance in Treasury, June 30, 1905.....	9,358 69

The amount expended for student labor during the year was \$5,003.50, which is included in the above statement.

The Treasurer's report filed herewith contains a complete itemized statement of the above receipts and disbursements.

FARM

Until the close of this year the Dean of the College of Agriculture has received and disbursed all moneys arising from sales of farm and dairy products, by action of the Board of Trustees these moneys will hereafter be certified direct to the Secretary of the Board of Trustees, and by him turned over to the Treasurer of the University, in the same manner as all other funds coming to the University. These funds will also be drawn upon by the Secretary of the Board of Trustees, in like manner, as other University funds.

As shown by the books of the Farm Manager the receipts and disbursements of the farm for the year ending June 30, 1905, were as follows:

Balance on hand June 30, 1904.....	\$861 26
Total receipts	11,413 49
	<hr/>
	\$12,274 75
Total disbursements	12,264 27
	<hr/>
Balance on hand June 30, 1905.....	\$10 48

HORTICULTURAL GARDENS

The same conditions prevail in the Horticultural Gardens as in the Farm, and hereafter these funds will also be handled by the Secretary of the Board of Trustees.

The Garden's account as shown by the books of the Manager, were for the year ending June 30, 1905, as follows:

Total receipts	\$2,117 09
Total expenditures	\$1,854 50
Deficiency, June 30, 1904.....	272 95
	<hr/>
	2,127 45
Deficiency, June 30, 1905.....	\$7 96

NEW MORRILL FUND

The receipts and disbursements of this fund are included in the preceding general statement of receipts and disbursements; the detailed statement of these disbursements, showing specifically for what the funds have been expended, as is required by Act of Congress, will be found appended to the report of the Treasurer filed herewith.

BONDED INDEBTEDNESS

The bonded indebtedness of the University, June 30, 1905, is \$225,000, which is divided as follows:—\$30,000 bearing interest at 4 per cent., and \$195,000 $4\frac{1}{2}$ per cent., under the plan of payment of these bonds as provided by an Act of the General Assembly passed April 23, 1898 (O. L., 93, p. 221), the total indebtedness will have been paid by December 1, 1912.

NEW BUILDINGS

The building for the department of Physics was completed and accepted by the Board of Trustees June 21, 1905.

The two buildings provided for by the last legislature, one for the department of Chemistry, to replace the one destroyed by fire February 19, 1904, and one for the departments of Mines and Ceramics, are now well under way, and will probably be completed ready for occupancy during the coming year.

EMERGENCY ALLOWANCE

At a meeting of the State Emergency Board held September 8, 1904, an allowance of \$9,000 was made for the department of Dairying, the same to be expended, in enlarging and improving the present building and equipment. This work has been going on under the direction of Prof. J. W. Decker, and will be completed by the opening of the coming Fall Term.

PAGE WILL CASES

As was mentioned in the last annual report the University by the decision of the Supreme Court of Illinois, came into complete possession of the 960 acres of Page Lands in Illinois.

Acting under the direction of the Will, the Trustees proceeded to sell these lands, in order to place the funds in the State Treasury, as a part of the Endowment Fund. Mr. John G. Haas was appointed Agent to negotiate the sale of these lands, and during this year has sold the entire 960 acres, at an average price of \$123.11 per acre, realizing therefrom \$116,800. Of this amount \$14,350 was received in mortgage notes, and \$425 was paid for discounting other notes, leaving a balance of \$102,025, which sum, together with the rents and profits amounting to \$8,632.19 in the hands of Mr. Haas, as Trustee, has been certified to the State Treasurer, under the provisions of Section 4105-15 Revised Statutes of Ohio, and made a part of the principal Endowment Fund of the University.

The cases now in the United States Circuit Court of Appeals, which concern the Ohio lands, have not been settled during the time covered by this report, but a favorable decision is expected by the University authorities; when the Ohio Lands will also be sold and the proceeds added to the Endowment Fund.

FACULTY

The instructional force of the University for the past year was as follows: Presidents, 1; Emeritus Professors, 4; Professors, 54; Associate Professors, 16; Assistant Professors, 22; Lecturers, 1; Instructors, 18; Assistants, 9; Curators, 2; High School Visitors, 1; Fellows, 17; Directors, 1.

The Library Staff consists of the Librarian; 4 Assistants; 1 Fellow.

The positions and compensation of members of the faculty, and of other officers and employees of the University are given in Statement No. 3 of the Treasurer's report.

ESTIMATES

Estimate of expenses for year ending June 30, 1906:

Bonds and Interest	\$44,637 50
Salaries	277,130 00
Fuel and Light	20,000 00
Repairs Buildings	13,000 00
Printing and Advertising	3,000 00
Roads and Grounds	5,000 00
Water Rents	3,500 00
Incidentals	9,000 00
Expenses of Trustees.....	300 00
Books	12,000 00
Summer School	7,170 00
Apparatus and Equipment	24,865 00
To complete School of Mines Building.....	67,739 10
To complete Chemical Building.....	75,069 83
Equipment New Buildings	25,000 00

PROGRESS OF THE UNIVERSITY

The changes in the faculty, enrollment of students, the degrees conferred, and the courses of instruction offered, as well as the general progress of the University during the past year, are given in the report of the President of the University, which report is made a part hereof.

Respectfully submitted,

CARL E. STEEB,
Secretary.

ANNUAL REPORT OF THE PRESIDENT TO THE BOARD
OF TRUSTEES

NOVEMBER 8, 1905.

HON. GUY W. MALLON, *President of Board of Trustees, Ohio State University*:

DEAR SIR:— I have the honor to present, through you, to the Board of Trustees of the Ohio State University for transmission to the Governor of Ohio, as required by law, the thirty-fifth annual report of the President of the Ohio State University for the year ending June 30, 1905.

THE BOARD OF TRUSTEES

During the year just closed the Board has suffered two changes. The Hon. George Kilbon Nash, upon his retirement from duties as Governor of Ohio, was appointed to succeed the Hon. Myron T. Herrick, who had resigned his trusteeship upon election to the office of Governor. Governor Nash's death occurred in October, 1904. An appropriate memorial was adopted by the Board of Trustees and placed upon their records. Governor Nash brought to the service of the Board a wide acquaintance with the affairs of the state and developed an increasing interest in the cause of higher education as represented at the University. Although his term of service was brief, his interest was genuine. The University suffered a distinct loss in his death. Governor Nash was succeeded in office by the Hon. F. A. Derthick, of Mantua, Ohio.

The Hon. Paul Jones retired from the Board at the end of his term of service in May, 1905. Mr. Jones is an alumnus of the University and has served his alma mater with devotion and distinction. He retired with the good will of all members of the Board of Trustees and Faculty, and will doubtless continue to serve his alma mater in other directions. He was succeeded by Hon. F. E. Pomerene, of Coshocton, a graduate of the University in 1891, with the degree of B. Ph., and in 1895 the degree of LL. B.

The Hon. Alexis Cope, who for twenty years had served as the efficient secretary of the Board of Trustees, retired from office in June, 1904, and was succeeded by Mr. Carl E. Steeb, an alumnus of the University in the class of 1899. Mr. Steeb has already proved his efficiency and capacity in the office. In this connection it may be proper to report that in 1904, upon recommendation of the President, the Trustees decided to employ an expert accountant to examine the books of the University. This examination began with the year beginning July 1st, 1899, and carried through to the year 1904. It is a matter of gratification to know that

this examination attested the accuracy and carefulness of the Board's accounts. A similar examination was made for the year ending June 30, 1905, with similar findings. This disinterested and expert examination is a valuable testimony to the carefulness of the work under the direction of the Board of Trustees. The large revenues of the University and great variety of expenditures combine to make the business of the state's greatest institution a matter of public concern. It is therefore with great pleasure that I call attention to the satisfactory condition of its accounts and the efficiency of the work as attested by the expert accountant.

THE FACULTY

During the year closed no important changes by way of loss have occurred in the University Faculty. Some well-earned promotions have been given to men after some years of service in the University and some new appointments have been made in order to make adequate provision for the increasing demands upon the teaching force. It is inevitable in a Faculty as large as that of the Ohio State University that changes should occur every year. The younger teachers are apt to have opportunities for promotions elsewhere that cannot be granted here. It is proper that such teachers should avail themselves of the better opportunities. There is an interchange between institutions among the instructional force that is not altogether hurtful, brings about a wider acquaintance, and on the whole tends to unify the cause of education among institutions of higher learning. A complete list of the appointments may be seen upon reference to the statistical reports, but it may be proper also to call attention to the fact that new appointments have been made in the departments of Electrical Engineering, Domestic Art, Animal Husbandry, Chemistry, Economics and Sociology, English, Experimental Engineering, Geology, Architecture and Drawing, Germanic Languages, and Romance Languages. The active instructional force for the year numbered one hundred and forty. In the Budget adopted to take effect July 1st, 1905, the Board of Trustees, on recommendation of the President, advanced the salaries of the heads of departments to \$2,500.00. This is the salary received by heads of departments twenty years ago. Owing to financial stress the Trustees felt compelled to make a ten per cent. reduction. It was understood that this reduction was only temporary; however, the temporary condition lengthened out for a long series of years. As a matter of equity and common justice this salary has now been replaced, although the restoration was all too tardy. In this connection it is worth while to call attention to the fact that the statute provides that no salary shall exceed \$2,500.00. This law was passed at a time when salaries were on a much lower scale than at present. The small salary of men in college circles in view of the changed conditions and increased cost of living, alone would justify the repeal of this statute. It would be well to bear

in mind that at the time the statute was passed, this limit was not reached in any of the Ohio schools. At present not only University and college men but public school men are paid salaries in excess of this amount. The Board of Trustees of the Ohio State University is the only educational board in the state of Ohio whose discretion in the amount of salary to be paid to the teacher is limited by law. There is no danger that the Trustees will waste money in extravagant salaries. There is great danger that the State University shall suffer by reason of its inability either to secure or retain men whose services would receive higher appreciation elsewhere. There would seem, therefore, to be no good reason why the legislature should not repeal the statute providing for the limitation in salaries of professors in the Ohio State University.

ENROLLMENT

For the year just closed the student roll has reached its highest mark. A summary of students reveals an enrollment of 1,870 as against 1,735 for the preceding year. A steady increase of attendance at the Ohio State University marks a very healthy sentiment and is also a tribute to the continued efficiency and high standards of education maintained. The summary by counties reveals the fact that every county in the state, as for some years past, has a representative in the University. Naturally enough there is always a large attendance from Franklin county. The proportion of students from this county, however, is steadily decreasing and the proportions increasing from other parts of the state. The unwarranted criticism has sometimes been offered, not apparently with the best motives, that there is an excessive proportion of students enrolled from the immediate vicinity. Upon this condition it is proper to remark that every college or university stimulates attendance in its own vicinity. Moreover, a large and growing city always furnishes a considerable contribution for any college or university. It is notably true in Ohio in the cities of Cleveland, Columbus, Cincinnati, and proportionately true of the colleges and universities located in the smaller cities. At the State University, as also at other institutions, it is worthy of observation that a considerable number of families leave their place of residence for a period of four or five years in order to educate their children and thus make a temporary residence in the city because of the University. These people are always reported as local residents. It is doubtful whether any just criticism can be made upon any institution for the large number enrolled from its vicinity which is rather a tribute to the efficiency and character of such institution. In this regard the Ohio State University has fully justified not only its own character but the wisdom of its location. In the distribution of attendance it is gratifying to know the increasing enrollment is from cities and counties having the largest population. These students come from counties where, at much less sacrifice and with less inconvenience, they might attend well-known and reputable colleges.

A summary by states and counties reveals the interesting condition of 1,870 students, 1,689 of which are enrolled from Ohio, the remainder of them are scattered through forty different states and countries. In many instances this shows the influence of our alumni and friends who have removed to great distances. Within a few years, as the children of the alumni come to college, this number will doubtless be increased and the influence of the University greatly extended. A summary of the attendance by colleges is added and for matters of comparison reference is made to page 32 of the report for the year ending June 30, 1904.

GENERAL SUMMARY

College of Agriculture and Domestic Science —		
Graduate Students	1	
Undergraduates	269	
	<hr/>	270
College of Arts, Philosophy, and Science —		
Graduate Students	46	
Undergraduates	490	
	<hr/>	536
College of Engineering —		
Graduate Students	5	
Undergraduates	738	
	<hr/>	743
College of Law.....		179
College of Pharmacy.....		85
College of Veterinary Medicine —		
Graduate Students	2	
Undergraduates	87	
	<hr/>	89
Lake Laboratory, Summer 1904.....		32
Shopwork, Summer of 1904.....		74
	<hr/>	
Total		1,958
Names counted twice.....		88
	<hr/>	
Net Total		1,870

DEGREES

At the Commencement, held on June 21, 1905, the University granted a total of 209 degrees. These were distributed as follows:

College of Agriculture and Domestic Science.....	31
College of Arts, Philosophy, and Science.....	85
College of Engineering.....	68
College of Law.....	16
College of Pharmacy.....	0
College of Veterinary Medicine.....	9
	<hr/>
Total	209

In addition to the degrees granted, certificates for the completion of courses not leading to degrees were granted as follows:

College of Agriculture—	
Short Course	2
Course in Dairying.....	6
	<hr/> 8
College of Engineering—	
Short Course in Clayworking.....	1
Short Course in Industrial Arts.....	3
	<hr/> 4
College of Pharmacy.....	5
College of Veterinary Medicine.....	5
College of Law.....	14
	<hr/>
Total	36

It is not uncommon that certain students fail to receive their degrees at the Commencement owing to the failure to complete the technical requirements or to temporary illness. The custom has been to recognize these persons during the year when the deficiency has been made good and their record completed. During the current year the following degrees were granted as above stated:

October 20, 1904 — John S. Norris, Master of Arts.
(as of the class of 1904.)

January 12, 1905 — William Wilson Chaffin, Civil Engineer.
Grandville R. Jones, Civil Engineer.
(as of the class of 1904.)

January 12, 1905 — The following certificates in the short course in Clayworking were also granted:

Arthur Frederick Greaves-Walker.
Frederick J. Klaus.
Walter Stowe Porter.

The class of 1905 was the largest class ever graduated and marks a steady increase in the number of degrees granted from year to year.

THE UNIVERSITY AND HIGH SCHOOLS

Another year of experience in visiting high schools has served to deepen the conviction of the wisdom of this effort to more closely relate the University with the public educational facilities of the State. The co-operation of the high schools with the University has been most cordial. It is gratifying to report that the services of the High School Visitor have been much appreciated and that the efficiency of his work has increased from year to year. As a result of this work a clearer understanding has usually resulted between the University and men engaged in the secondary schools. In many instances the local schools have recognized their opportunity and have improved the conditions of education. This has brought to the communities and the pupils of the high schools improved educa-

tional facilities, and usually a better appreciation of the work of the teacher. It is believed that the students from the accredited high schools under this system of visitation have shown better preparation than before. It is also evident that the stricter interpretation of its entrance requirements by the University has resulted in a more carefully selected body of students. From year to year, a considerable number of students have found it impossible to meet the requirements of the University and have returned either to high schools or to preparatory departments of colleges in order to prepare for entrance at the University later. As stated in former reports, it is not the thought of the University that the work of the High School Visitor shall be carried on with a view to increase the number of students at the State University; that number is already increasing quite as rapidly as the facilities justify. There is a greater and more important work for the University than the mere securing of students; not the least important of this work is that the State University shall stimulate and lead in the ideals for higher education within the state. There is no disposition to divorce the University from the public high schools, but rather to make the union closer. It is desired, however, that the University shall maintain and enforce the highest ideals in education. In a spirit of friendly co-operation, not only with high schools but with other colleges and universities, the official visitation is made in the hope that the University may make a contribution to the cause of education that shall find increasing appreciation among teachers, schools, colleges, and the public.

THE ENTRANCE BOARD

Among the new provisions made during the current year attention is directed to the organization of what is termed the Entrance Board. The functions of this board are to pass upon all questions pertaining to the entrance of students; to provide for the necessary examinations at the close and opening of the year, and to bring to the Faculty appropriate reports of its work. One or two members of this board will be in service during the entire vacation period so that entrance correspondence may be promptly disposed of and provisions made for the registration of candidates. The policy of accrediting schools, admitting upon certificate only those who are graduates of such schools, has made it necessary to provide for regular entrance examination periods. Accordingly, a schedule of one week in June and a week in September has been provided in order to accommodate the convenience of applicants. Approximately, one hundred persons availed themselves this year of this opportunity to secure entrance to the University. The important work of this board is found in caring for the credentials of students coming from other colleges and asking for advanced standing. The number of such students is steadily increasing from year to year, and it is found advisable to make a somewhat careful study of the courses offered in neighboring colleges and uni-

versities in order that students may avail themselves of the facilities of the University with as little inconvenience as possible. The limited experience of this Entrance Board already proves the wisdom of its organization, and it is confidently believed that it is a step toward increasing the efficiency of the University and of emphasizing the importance of the standards insisted upon.

THE UNIVERSITY EDITOR

Provision has been made in the Budget for the appointment of a University Editor to take effect July 1st, 1905. This appointment is the response to a need greatly felt for some years. The Editor will be charged with the duty of publishing the annual catalogue of the University, the announcements of the several colleges, and the bulletins that are published under University auspices. The growth of the University has made it incumbent upon the authorities to publish in a somewhat systematic form some records of the progress of the University as well as to give official recognition to work done in the Faculty. The Editor will serve as secretary of the University Faculty and will, therefore, have at his command all the official records necessary for accurate publication. For some years the sentiment has been growing in favor of periodical publication of contributions made by the University Faculty in science and in the several departments of learning in which men are engaged. This new department looks toward a systematic endeavor on the part of the University to publish such results of research and contributions to learning as conditions warrant.

SUMMER SCHOOL WORK

For some years the University has maintained the Lake Laboratory school at Cedar Point, near Sandusky, for the purpose primarily of research in biological science. Professor Osborn has been made director of this laboratory and a substantial building has been erected by the University for the work. It is gratifying to report that the student roll at this summer work has been composed chiefly of graduates of the University and of other colleges, and of teachers engaged in teaching science in our schools and colleges. The policy has been adopted to employ a faculty for this work composed of men in part from the University and in part of men engaged in teaching such subjects in other colleges. The unparalleled facilities for the study of fresh water forms at Cedar Point have attracted students to this location. It is confidently believed that this co-operation with other faculties under the auspices of the State University will make a noteworthy contribution to the cause of scientific education in Ohio. There has been no effort made to attract large numbers, but rather to attract persons who are desirous of making investigation and of increasing their scientific attainments. Investigation rather than instruction has, therefore, been the chief aim of this summer

school. In the summer of 1904, thirty-two students were enrolled and practically all of the work was of advanced character and done with reference to graduate degrees.

In addition the usual summer work of the shops for the students in the College of Engineering was carried on and also a party of Civil Engineers sent out for field work. These efforts to supplement the theory and limited practice possible during the year by an active experience during the summer have proved entirely satisfactory and received the cordial endorsement of the University Faculty.

The limited experience of the University in summer term work has already brought numerous requirements for the extension of opportunities at the University for study. Accordingly, a summer term has been announced for 1905 giving special emphasis to a better preparation of teachers in our high schools and opportunity for the study of Manual Training. The Board of Trustees has very cordially approved the policy of extending the facilities of the University to a portion, at least, of the summer. If, in the judgment of the legislature, this policy should be approved it would seem wise to make such an increase to the revenues of the University as would justify ample provision for summer study. It is doubtful whether the policy of keeping valuable materials idle during one-fourth of the year is sound economy for the state. The saving of time and money to students, the offering of opportunities to many teachers, and the increased efficiency of the plant would seem to justify a relatively small increase necessary for providing the teaching force.

A COLLEGE OF EDUCATION

For a number of years the University has maintained a department of education. It is necessary to the completeness of the facilities of the University to offer this for persons desiring a liberal education; but aside from the demand for the technical study of the problems of education, there is an increasing recognition of the necessity of educational facilities for persons who propose to engage in teaching. The state has made some provision for the training of elementary teachers and has provided for the establishment and maintenance of normal schools at Ohio University and Miami University. These facilities, however, will not meet the need or respond to the demand for advanced education on the part of persons who desire to engage in teaching either in secondary schools or colleges. The statutes already provide and require that the University shall teach Manual Training among other subjects; the movement is pretty well defined in Ohio for Manual Training High Schools. The preparation of teachers for such work is not provided for anywhere in the state except so far as the technical courses at the University make such provision. The large equipment of the University, unparalleled anywhere in Ohio, should be made available for teachers

in our higher grades of education. A comparatively small addition to the expense account of the University could provide a Teachers' College which should utilize existing educational opportunities and add some new features for the benefit of teachers. The library and laboratory facilities of the University, the extensive courses in technical education, all furnish a splendid opportunity for students of education to study the problems of higher education at first hand with great advantage. The work of the University will not be complete until a Teachers' College has been organized, equipped, and properly related to the educational facilities now afforded by the state. The voluntary expression of interest in this subject by many of the school superintendents and high school teachers of the state has stimulated a discussion of this matter in University circles and it is earnestly desired that the legislature may take appropriate action recognizing this need.

ATHLETICS

In the modern college athletics assume so large a place that it seems appropriate to offer a few remarks upon that subject in a formal report of the University. The Ohio State University has made provision, at considerable expense, for an Armory and Gymnasium. This was in response to the requirement for instruction in military tactics as provided in the original act on which the University was founded. In this building provision is made for instruction in physical education, for both men and women, and for the organization of the University battalion; athletics also shares an interest in the building. A wide-spread interest has developed among the students in base ball, foot ball, track athletics, basket ball, and in the various other forms. No institution is isolated from another in this respect; the problems are not only local but general. A very marked tendency toward athletics may be observed both East and West, North and South. An absorbing interest of the public, of alumni, and of students has created an atmosphere not always the purest. For ten years or more, commendable efforts have been made to regulate the excesses, irregularities, and professionalism of athletics. There has been evident improvement in the rules; what is most needed at present is to improve in the ethical standards of all persons interested in athletics. Conformity to athletic rules is too much of a technicality and not enough of a principle. The extreme care necessary on the part of any team in order to avoid playing against the team in which professional people may be listed, indicates a condition that can be recognized without further detail or description. The suspicion that seems to be in the minds of people interested in athletics, is itself a greater evil than some of the abuses complained of. Athletics like every other form of amusement or business must eventually rest on sound ethics; all policies like all practices, should be founded on sound principles. Amusements can no

more afford to ignore righteousness than business can. It is unfortunate in the extreme that the public mind is so eager for amusement that it becomes indifferent to the ethical conditions surrounding the game. Up to date, little assistance in the purification and reform of athletics has been received from the public; whatever progress has been made, or is likely to be made, must have its inspiration from within. College faculties must recognize not only their *right* but their *duty* to lead in all forms of college athletics. It is futile to think that groups of hundreds and thousands of students who attend colleges and universities shall have no forms of amusement; no greater misfortune could happen than to banish all forms of amusements from college circles. It is a manifest waste of energy for college faculties or individuals to spend time in denouncing athletic or the abuse of athletics; what is needed is efficient leadership by men to whom principle is dearer than anything else. If university faculties are set for the education of the youth, it is little more than a corollary to add that they can not ignore the ethical conditions existing in college sports. The Faculty of the Ohio State University, in common with other faculties, has made some effort in this direction. It is not apparent that they have done all that could be done, or that the results of these efforts have been entirely satisfactory. It would be gratifying to some if there were no athletic problems; but so long as there are institutions there will be students and so long as there are games there will be problems. We shall never reform athletics simply by rules; we shall reform it only when we have inspired young men to cling to high ideals and to be governed by sound ethics. In the adjustment of this perennial problem, college and university faculties should be the inspiring leaders.

THE MATERIAL PROGRESS OF THE YEAR

As stated in the report of the previous year, the largest amount of money ever appropriated by the state was given by the last legislature. The University has tried to meet the responsibility of this cordial support by a careful use of the available money. The increased facilities provided in the way of buildings are in process of construction and will be available by the time the next legislature meets. The appropriations were not quite sufficient to completely equip the new buildings provided for and it will be necessary to ask that this provision be made by the approaching legislature. Since the last report, the physics building has been completed and is now occupied by the department of physics and is a very considerable improvement upon the educational facilities offered at the University and has greatly increased the efficiency of the department of physics. The new Chemical building will be completed by January 1906, as will also the School of Mines building.

NEEDED BUILDINGS

The growth of the University and the development of its work have made it necessary for the University to plan on a somewhat extended scale what may be termed a plant which ought to be brought to speedy completeness. Among the new buildings, to make the plant somewhat complete, may be named the following:

The College of Agriculture needs suitable barns for the stock necessary for the successful work in Agriculture. The present buildings for the purpose were provided early in the history of the school and are now practically worn out. Probably a thousand farms in Ohio are better equipped, from the standpoint of tools and tool houses and the necessary buildings in connection with the farm operations, than the College of Agriculture. Agricultural education in the meantime has made great progress. There is pressing need, therefore, for a horse barn, a cattle barn, a sheep barn, and provision for swine, a building for instruction in Animal Husbandry, a building for instruction in Farm Mechanics, and a general adjustment of these buildings with a view to increasing the educational facilities of the College of Agriculture. During the past year a syndicate of gentlemen bought land lying west of the Olentangy River and are holding it that the state may purchase it at a reasonable price and thus provide additional land which is needed for the College of Agriculture.

In addition to these considerations it is important that a railway line be extended from the Hocking Valley Railroad to the power house. The proposed purchase of this land would enable the University to own the right of way west of the railway. The decrease in the cost of delivering fuel would be sufficient to pay the interest on the purchase of the land and thus give the land to the College of Agriculture for its use practically for nothing. The spur of railway would also serve as a valuable adjunct to the departments of Mechanical and Electrical Engineering for experimental purposes, and would not only be a wise expenditure of money but an economic arrangement for the state.

The number of buildings has now become so great that the Power House is inadequate to furnish heat to all and it will become necessary, therefore, to make some provision to increase the facilities for heat, power, and light.

The rapid development of the College of Engineering has demonstrated a necessity for some adequate provisions for the important departments of Mechanical and Electrical Engineering. The provision already made for these departments is substantially what was made twenty years ago; the rapid development not only in the College of Engineering but in the means of teaching make it imperative that the opportunities in this department be brought up to date.

The Departments of Botany and Horticulture and Forestry are in need

of suitable provision in the way of buildings. This need has existed for ten years; it becomes more urgent every year and the time has now arrived when a large and valuable collection of scientific material that could not be duplicated for a large sum of money, is constantly threatened and some of it is not available for educational purposes simply because there is neither room in which to place it nor suitable space to exhibit it.

The large number of students in the battalion, and the demands for physical education make the present facilities of the Armory inadequate. The University needs a large drill shed which could be erected at small cost. This is a matter of good faith on the part of the state with the United States Government in accepting the Land Grant Act of 1862.

A Woman's Building, which should make provision for the women on the campus, (not for dormitory purposes) but for physical education, for Domestic Science, and for general headquarters, is an imperative need and has been recognized for some years. The University of Illinois was the first state institution to make adequate provision for its women. The facts are that in Ohio large numbers of young women would gladly avail themselves of the educational facilities offered by the state if the facilities were supplemented by some recognized necessities and conveniences. In the practice of co-education, so cordially supported in Ohio, it would seem that the call for a "Woman's Building" would meet with a hearty response.

It is not to be forgotten that the Library facilities of the Ohio State University are inadequate. A library building will continue to be a necessity until the provision is made. The library is temporarily, therefore, in a building designed for other purposes, and has been a most efficient aid in education under the limited facilities provided.

It is not presumed that the state will be willing to provide for all the needs of the University in any one year. The important consideration is that a recognition of these needs shall bring forth necessary facilities as rapidly and promptly as the revenues of the state will permit. The increasing confidence in the University and its work is a matter of congratulation and manifests itself from year to year. The state, through the legislature, is increasingly liberal in its support. It is the purpose of the Trustees and of the Faculty to merit this confidence and support.

CONCLUSION

In closing this report, it is a pleasure to state that the year has been one of harmony, co-operation, and efficiency. The uniform courtesy and good-will among the Faculty, students, and Trustees, is a matter of common observation. The President desires to make public recognition of his obligation to the Trustees, Faculty, and students for their most cordial co-operation in carrying forward the work of the University.

The report of the Librarian, the report of the Dean of the College of Law, the several tables of statistics and itemized reports as required by law are herewith submitted and made a part of this report.

Respectfully submitted,

W. G. THOMPSON,

President.

COLLEGE OF LAW

REPORT OF JOSEPH H. OUTHWAITE, DEAN

(35)

COLLEGE OF LAW

REPORT OF JOSEPH H. OUTHWAITE, DEAN, FOR THE YEAR 1904-1905

To the President of the Ohio State University:

DEAR SIR:— I have the honor to submit the following report on the condition of the College of Law for the year 1904-1905.

The death of William Forrest Hunter, late Dean of this College, occurred at the close of the last academic year, June 15th, 1904. The day after his death the Faculty of the College of Law, in token of respect for his memory, adopted certain resolutions, of which one was, that Mr. Page be requested to prepare a memorial of him, and to submit the same to the Faculty. At a subsequent meeting of the Faculty, during this College year, in pursuance of that resolution the following memorial was presented and was adopted, and a copy of the same furnished to the family of Dean Hunter:

"The death of William Forrest Hunter, second Dean and first working Dean of the College of Law of the Ohio State University, ends a long, useful, and honorable career.

"William Hunter was a member of an old Virginia family, who had long resided at Alexandria. In 1817 he left Virginia and settled at what is now Woodsfield, Ohio, with his son, William Forrest Hunter, the first of the name. Here at Woodsfield, Ohio, William Forrest Hunter, the second of the name, late Dean of the College of Law, was born on the 26th day of May, 1839. The first of the name was a lawyer whose devotion to the active practice was interrupted only by his service as a member of the lower house of Congress. His son, our late Dean, inherited his father's love for law but not for politics. As a youth, residing at his birth-place, he studied law with Judge John W. Okey, at one time Judge of the Supreme Court of Ohio, and in 1861, at the age of twenty-two, was admitted to the Bar of Ohio. Then came the only period of his life in which he turned aside from his systematic and unremitting study of the law. He entered the Union Army during the Civil War, and with characteristic devotion gave his energy and services to the Union cause, and risked his life for it. Serving as Adjutant of the Sixty-second Ohio Volunteer Infantry and subsequently as Captain of the Ninety-seventh Ohio Volunteer Infantry, he took part in some of the fiercest battles of the Civil War, and was wounded at Missionary Ridge. To the day of his death he carried in his body the Confederate bullet that so nearly ended his life.

"At the end of the Civil War he resumed his study of the law, taking some of the courses offered in the Law School of the University of Michigan; and then in 1866 he moved to Cincinnati, Ohio, where he spent two years in assisting Judge Okey in the preparation of Gholson and Okey's Digest. As will be seen from an examination of the earlier Ohio Reports, the judges, in rendering opinions construing and applying statutes, frequently omitted to cite the specific statute under which the case was decided, and accordingly where there had been amendments or new enactments, it was impossible to determine what statute a given decision construed, without a great amount of research. Mr. Hunter examined every reported Ohio case decided up to that time in which a statute was cited, and ascertained what statute the court had before it for construction. The list of Statutes of Ohio cited or construed in the volume embraced in that Digest is his work.

"When this work was published in 1867, Mr. Hunter was ready to enter the active practice of his chosen profession. He had not intended to locate at Woodsfield, but his father requested his assistance at the following term of court at which the father had so many cases for trial that he felt the need of assistance. The son's success was marked and decided. The first case which he tried, by his own selection, was one involving the law of common carriers, a subject in which he always had been and always was especially interested. As his father requested him to locate in Woodsfield and offered him strong inducements, he entered the practice there in partnership with his father, and in a short time the elder Mr. Hunter retired from the active practice leaving the younger man to carry his father's practice and the practice which his own ability had begun to draw to him. Here he lived for nineteen years. His practice steadily increased, and he became one of the leading lawyers of that and the surrounding counties. Ultimately he became largely engaged in railroad practice, and for that reason he moved to Zanesville in 1885, where he lived between two and three years, and then removed to Woodsfield for a short time. He had resolved to wind up his local business and to move to Columbus to be near a University for the sake of his children. Accordingly, in 1890, he terminated his local practice, retaining only some of his railroad business, and removed to Columbus.

"Soon after he removed to Columbus his connection with the College of Law began, originally in a way accidental. Our late colleague, Judge J. H. Collins, was at that time instructor in the law of Private Corporations. During the first year of the life of the Law School, Judge Collins was obliged to spend much of his time in Chicago in railroad litigation; and being well acquainted with Mr. Hunter, he invited him to act as substitute for him on certain of these absences. Mr. Hunter's success as an instructor was immediate and decided. Without any previous experience in giving formal instruction, he was a born teacher of the law; and his ability to interest his students, his thorough knowledge of the law,

his enthusiasm in his work, and the high standards which he fixed as an ideal, made him at once a favorite with the class. The first petition of the students in the Law College was that Judge Collins invite Mr. Hunter to act as a substitute whenever the former was absent. Their second petition, made on learning that the subject of Sales, which was to begin at the second term of the College of Law, was not assigned, was that Mr. Hunter be appointed to teach such subject. Both petitions were granted. Thus began the connection of Mr. Hunter with the Ohio State University. His success as an instructor was marked from the first. Additional subjects of instruction were assigned to him from time to time. In 1893 Judge Marshall J. Williams, nominal Dean of the Law School, resigned and Mr. Hunter was appointed Dean, a position which he retained when the Law School was reorganized and made the College of Law of the Ohio State University.

"With this appointment began the last, the most important; the most useful, and the most honorable part of his career. At that time the College of Law numbered less than sixty students. Its sessions were held in the rooms at the Franklin County Court House now occupied by the library of the Bar Association of Franklin County. The course was the two year course then characteristic of the majority of the law schools of the country. It may fairly be said that the school itself was still in the experimental stage. To build this College up and strengthen its position in every possible way was the work of the Dean. To it all his energies were bent. From the time that he assumed the Deanship, Mr. Hunter's life, strength and ambition centered in the College of Law. His energy, enthusiasm, devotion and ability, together with the hearty co-operation of the Faculty and the loyal support of the student-body, soon produced marked results. The increase in the number of students was one manifestation of this gain in strength. From a college of fifty-eight students in 1893 it had increased to a college of one hundred and thirty-two in 1897, and to one of two hundred and twenty students in 1901. This increase in numbers was not gained by the lowering of standards. The quality of work done in the College, and the amount required from the students was steadily increased. Taking effect with the class entering in 1901, the standard for admission to the College of Law was raised from a common school to a high school education; and the requirements for a degree from a year and a half of academic work of collegiate grade to two years. This increase in entrance requirements cut the number of the first class entering under them by one-half. In 1902 with the first year students alone under the new requirements, the attendance at the College was one hundred and eighty-eight. In 1903, with the first and second year students under the new requirements, the attendance was one hundred and sixty-six. It is, however, gratifying to remember that during Mr. Hunter's life-time the steady gain in the strength of the school had caused a turn in the attendance. In 1904, with all three years

under the new requirements, the attendance, instead of showing the anticipated loss when compared with 1903, showed a gain, reaching in the latter year the number of one hundred and seventy-one. In 1897 the College of Law removed from the Court House to the University campus. This change checked for a time the normal increase in numbers, and temporarily resulted in very inadequate accommodations; but in addition to its bringing the College of Law into closer touch with the University, it resulted ultimately in the erection of the present building for the College of Law. In November, 1903, the College occupied its present quarters, and the Dean for the last year and a half of his life saw the College in the material surroundings in which he had long striven to place it.

"The relation of the College of Law to the University was another change that marked the development of the school. Prior to 1897 the Law School was but loosely connected with the University. In that year it became one of the regular colleges into which the University had been divided.

"Thus he lived and worked, his life practically merged in the welfare of the College, its gains and advances his great source of happiness. The same kindness and courtesy that marked his ideal home life characterized his relations with his colleagues of the Faculty. The power and force that he put into his work did not in the least take from his consideration for others. If he expected much from us, it was because he was willing to do more. No toil was too hard for him; no sacrifice too great, if the welfare of the College could be advanced.

"It was thus, in the flood-time of success, at the height of his usefulness, that he was taken from us. It was during the last six months of his life that for the first time the condition of his health interfered with his work at the College. He suffered far more from the thought that he was not able to give to his beloved College the care and attention that he was accustomed to bestow upon it, than he did from the disease itself. The slightest apparent improvement in health was to him a sufficient excuse for braving the raw cold of a belated spring in the effort to take up his work again at the point where he had been forced to lay it down. If he had thought more of himself and less of his work, his life might have been spared. Even as he lay dying in the delirium of fever, his thoughts were always with his College; his great anxiety that his inability to attend to his work might cause some harm to the institution which was so dear to him. It needed not the general grief at his death, not the outpouring to do him the last honors that men receive, to show that he was equally dear to the College and to the University. It will always be among the honors and glories of this College and of the Ohio State University that this was the field in which such a man as William Forrest Hunter gave the best of his service."

The vacancy occasioned by the death of Dean Hunter was not filled by the Board of Trustees until its meeting in December, when the present

Dean was elected, who assumed the duties of the office in January, 1905. Up to this time Professor George Wells Knight had been serving the College as Acting Dean, having been elected to that position by the Faculty at its meeting of September 26, 1904.

There were some changes in the corps of instructors at the beginning, or during the year — James M. Butler, Esq., took the course in Municipal Corporations. Hon. Wade H. Ellis has taken that in Private Corporations, and Judge Edmund B. Dillon has taken the lectures in Evidence — the latter two courses running through the entire year. In the second semester Professor Edgar B. Kinkead gave the course in Moot Court. Mr. George W. Rightmire gave that in Sales, and the Dean those in Criminal Law and Procedure, and in Suretyship.

Some changes and adjustments in the course of study have been made by the Faculty during the past year to take effect in the College year 1905-1906. Prior to this change Elementary Law occupied fifteen hours a week during the first semester, and the subjects of Personal Property, Domestic Relations and Status were included in this course. These subjects have been separated and placed in distinct courses. Elementary Law will occupy eight hours a week to November 1st and five hours a week from that date on to the end of the semester. Domestic Relations will occupy three hours a week for the first semester; and in the second semester Personal Property and Elementary Real Property will each occupy two hours a week. Criminal Law has been transferred to the first semester. The time given to Contracts and Torts proved inadequate and has been increased. Contracts begins November 1st and will occupy two hours a week to the end of the semester and four hours a week during the second semester. Torts begins November 1st and will occupy two hours a week to the end of the first semester and three hours a week during the second semester.

In the second year, Real Property has been changed from a course of four hours a week during the second semester to a course of two hours a week throughout the year. Thus a continuous course is formed, beginning with Elementary Real Property in the second semester of the first year, running through the second year with the course in Real Property, and concluding in the first semester of the third year with a new course on Mortgages and Liens for two hours a week during the first semester. The course on Circuit and Supreme Court Practice of one hour has been transferred from the Graduate Courses into the second semester of the third year; and the courses in Probate Law and in Ethics have each been reduced from two hours a week for a semester to one hour. The requirement of a thesis to be prepared by each candidate for a degree was abolished.

The following table shows the courses given by each instructor in the College of Law during the year, the number of lectures per week in each course, and the number of students in each course:

Instructor.	Subject.	Lectures per week.	Whole No. Lectures.	Whole No. Students.
Prof. Knight.....	Constitutional Law	3	54-54	37
Prof. Page.....	Elementary Law	10	180	76
	Contracts	4	68	64
	Real Property	5	85	55
	Wills	2	34	53
	Quasi Contracts	2	34-401	33
Prof. Kinkead.....	Torts	4	68	61
	Pleading (1st Sem.)....	5	90	56
	Pleading (2nd Sem.)....	1	17	54
	Probate Law	2	34	36
	Trial Practice	2	34	31
	Ethics	2	34	30
	Moot Court	2	34-311	82
Prof. Randall.....	Negotiable Instruments...	5	90	53
	Partnership	2	34	54
	Agency	2	34-158	61
Judge Shauck.....	Equity Jurisprudence....	4	72-72	36
Judge Stewart.....	Federal Practice	2	34-34	30
Mr. Ellis.....	Private Corporations....	2	70-70	40
Mr. Butler.....	Municipal Corporations...	3	54-54	37
Judge Dillon.....	Evidence	3	105-105	59
Mr. Rightmire.....	Domestic Relations	5	90	83
	Bailments	2	36	52
	Sales	2	34-160	61
Prof. Outhwaite.....	Suretyship	2	34	32
	Criminal Law	3	51-85	56

The number of undergraduate students enrolled in each of the classes of the College during the preceding academic year and during this year is shown in the following statement. It includes also the number of students from other colleges of the University who were taking courses in Law :

1903-1904

I

Students enrolled in the College of Law.....	60	
Students from other colleges of the University enrolled in law courses	22	82

II

Students enrolled in the College of Law.....	42	
Students from other colleges of the University enrolled in Law courses	1	43

III

Students enrolled in the College of Law.....	43	
		168

1904-1905

I

Students enrolled in the College of Law.....	70	
Students from other colleges of the University enrolled in Law		
courses	11	
		81

II

Students enrolled in the College of Law.....	59
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III

Students enrolled in the College of Law.....	39	
Total	179	

The total number enrolled shows an increase of eleven this year over the attendance of last year.

One-third of the members of the Senior Class were College graduates. Of the members of that class, one was not recommended by the Faculty to the Supreme Court for admission to the Bar, because he was not yet twenty-one years of age. The rest were so recommended, and all passed that examination—the four most creditable papers presented to the Committee at that examination being by members of this Class, as I am informed. The number of applicants for admission at that time was two hundred and ninety-five.

The year has been a fair one, and well calculated to encourage our expectations of an increase in numbers and a growth in standards.

JOSEPH H. OUTHWAITE,

November 3, 1905.

Dean.

REPORT OF LIBRARIAN

(45)

REPORT OF LIBRARIAN

JULY 1, 1905.

DR. W. O. THOMPSON, *President Ohio State University, Columbus, Ohio:*

DEAR SIR:— I beg leave to submit herewith my report as Librarian for the year ending June 30, 1905.

The number of books recorded on the accession books of the Library is 58,522, being an increase of 5,139 over the number reported last year. Of this increase, 916 have been secured by purchase, 1,864 by binding, 2,351 by gift, 6 by exchange, 2 by replacement.

Owing to the conditions which made necessary the cutting in half the ordinary Library appropriation for the year which has just closed, it was not expected that the year's accessions would reach any large figure. The amount of money appropriated, \$2,500.00, was barely sufficient to pay for periodicals and continuations regularly received and to provide for a little of the most important binding, \$300.00 being set aside for that purpose. The showing, however, has not been so bad as was anticipated. This has been due to two causes. (1) Several important orders which had been long outstanding and for which money had been provided, were filled during this year; and a considerable number of books were purchased by the Departments with money from their departmental appropriations which was available for the purchase of books. (2) At the close of the year 1903-4 the services of a traveling binder had been secured who for a very small sum put into a cheap but fairly satisfactory binding a large number of the pamphlets. Many of these were recorded upon the accession records this year, some still remaining to be entered next year. This accounts for the comparatively large number of accessions received by binding.

GIFTS

Among the important gifts recorded among this year's accessions are the books from the library of Mr. Mesloh, of which an account was given in last year's report, and the books belonging to the professional library of Dr. Edward Orton, to which bare reference was made in last year's report.

The library of Dr. Orton was given by his son, Professor Edward Orton, Jr. It consisted of volumes of the United States and State Geological Surveys, of geological texts, and of a great number of separates from geological periodicals and transactions which had been sent to Dr. Orton by the authors, many of them containing the autograph of the writer. Some of the books duplicated books in the University Library and were not accessioned. The volumes of the United States and State

Surveys were, however, put upon the Library shelves in preference to the volumes already standing there, it being the feeling that the geological section of the University Library should be as closely as possible connected with the great geologist who had laid its foundations. Of the bound volumes incorporated in the University Library, there were 653 volumes. Some of these dealt with subjects other than geology, and have been put in their places in the other divisions of the Library. The duplicate volumes have been put in the duplicate room to be used in the way of exchange when possible. Of the separates, 635 have been found to be either not in the University Library or greatly needed in duplicate. The remaining numbers are at present shelved in the duplicate room. There were also approximately 400 miscellaneous pamphlets. Among Dr. Orton's papers were found a number of University programs, some of them of the early years, which have formed a distinct and valuable addition to our memorabilia books. According to the terms of this gift, the books secured by the Geological Survey are to be kept at the Ohio State University and the care of them is to be vested in the University Library. It is the desire that a room be set aside in Orton Hall for the geological library of the University, which will include the books owned by the University and the books received by the Survey. The Survey, having just begun its systematic work of collecting a library, has not yet a large number to show.

Another interesting gift has been the gift of the large agricultural library of Mr. James Buckingham, of Zanesville. This consists of agricultural texts, of agricultural reports, and of a large number of bound papers, especially stock papers. It is doubtful whether these early volumes could have been secured in any other way.

Mr. John and Mr. Louis Siebert continue their generosity to the University, and their interest in the Siebert Library by the annual gift of \$200.00 for the purchase of books in German History.

An interesting token of University fellowship was the gift from the University of Chicago of the First Series of their Decennial Publications. These are beautiful volumes of great value.

INTER-LIBRARY LOANS

As in former years we are indebted to other libraries for many courtesies, and grateful acknowledgment is hereby tendered to the Cincinnati Public Library, Columbia University Library, Cornell University Library, Detroit Public Library, Harvard University Library, Library of Congress, Library of the University of Pennsylvania, Western Reserve University — Adelbert College Library, Wisconsin Historical Society Library. The courtesy shown by these libraries has been most gracious, and has enabled our graduate students to accomplish work which would have been impossible without it.

USE OF THE LIBRARY

Owing to the cramped quarters of the Library, it has been a physical impossibility to offer any inducements looking toward a more extended and satisfactory use of books. At certain hours of the day the small amount of space available for readers is crowded to discomfort. During the evening hours the attendance has increased. The fact that so many come across the large campus to spend an evening in the Library demonstrates the fact that when not crowded it is a good place for uninterrupted study. The attendance at the Law Library seems to be increasing.

LIBRARY SITE

It is needless to repeat in this report what has been said in former reports regarding the great need of a library building. I cannot, however, lose this opportunity to urge again the necessity of setting aside a place on the University campus for the library building when it does come. This is especially important at the present time because of the attention which is now being given to plans for a definite scheme of location for University buildings. Some plans have, I believe, been submitted to the Trustees of the University.

In deciding upon the location for a library building two things must be kept in mind: (1) The location should be near the center of population. (2) It should be so situated that there would be not only room but opportunity, in the architectural and artistic sense, for indefinite growth. The second requirement so modifies the first that the exact center of the University scheme of buildings should not be the place selected. Architecturally speaking, the center of such a group should be a finished product, with no unsightly false walls. That the Library should not be an adjunct to another building or group of buildings would seem to go without saying. It should at the very beginning be planned so large that it would necessarily have to stand alone.

The place on the University campus which comes almost ideally near to fulfilling these conditions is the site of the present Botany Building. It is the understanding that it is the desire to unite Botany and Horticulture in one large building on the present location of the Horticultural Building, so that eventually its present site will be free for other uses. It is very near the center of the University, so fulfilling the first requirement. The second requirement is met in that it gives room on the level for the main structure of the building, while the hillside and hollow to the south give opportunity for indefinite expansion to the rear. Stack wings could be run down the hill and into the hollow in such a way that it would be hard to see how they could ever interfere with the architectural scheme of the University.

It may seem unnecessary at the present time to plan for such indefinite

expansion, but to profit by the experience of others is only the part of wisdom. The need of expansion in buildings is the experience of all libraries, but it is necessary only to turn our attention to some of the larger ones in order to prove the point. A consultation of the annual reports of Harvard University will give a graphic picture of the experience in the Library of that institution. Gore Hall with its beautiful Gothic lines erected in 1838, was at that time supposed to fill all library needs. In 1877 a large wing was added, providing amply as it was thought for stack and work rooms. In 1895 it was found necessary to mutilate Gore Hall by dividing it into two floors, doing away with the beautiful Gothic effect, the lower floor being used for stack purposes, the upper for a large reading room. Ever since, 1898 the demand for more room has been so pressing that it is a great problem as to what can be done to provide for the books belonging to Harvard University. The desire is for an entirely new building, and it is hoped that some bequest will be made so that the building may be in keeping with the great library. In the meantime the pressure for more space has made President Eliot consider the desirability of having store rooms for the less used books built in some locality where the land has not the great value that it has in the College Yard.

Yale University is just now providing for its third library building, and the cry of the Yale Alumni Weekly has been that the plans contemplated were not large enough, and that the building should not be placed in the Quadrangle because of the impossibility of providing room for growth. The plans as adopted, however, connect the two library buildings now standing so as to make a complete whole, with the understanding that a complete library building will sometime be placed near the center of University population rather than in the Quadrangle which represents college life more especially.

The University of Wisconsin, which has just put up a \$600,000 building, has left one wing of the original plans untouched, and one great drawback to the locality and the building is the fact that it will be hard to add other wings.

The Boston Public Library with a building costing \$2,343,000 within three years from its occupancy found it necessary to remodel a part at a cost of \$85,000 in order to gain more room.

This being the experience of libraries in general, it certainly would behoove the University in planning for a library building to insure itself as much as possible against a like experience. President Eliot's idea of separating the much used or live books from books seldom consulted, is a good one, and may possibly become a principle of book storage. However, even if it be adopted by the Ohio State University, it is not probable that the University would ever wish to buy land especially for the purpose of building such a storage house. And if the books are to be stored on the University campus, it would be manifestly better to have the storage house in close connection with the working library. Hence the

providing for it in the rear of the library building or in the hollow back of the site recommended, would seem a wise thing to do.

UNDERGRADUATE COURSES IN LIBRARY SCIENCE

During the fall term there was brought to my attention by the Dean of the Colleges of Arts, Philosophy, and Science, the need of the University offering some courses to satisfy the great demand for work along the lines of Library Science. Requests for such work were coming in such numbers as to show that there was an increasing demand. After conference with the Dean, it was agreed that if work could be offered as undergraduate courses which, while not giving professional training, would be preparatory to such training, it would be all that could be attempted by the University at the present time. From the viewpoint of general culture such courses would be of great value, and it was felt that they could also be made of value for those students who were intending to enter the library profession. Having these conditions in mind, I took occasion at the meeting of the American Library Association in St. Louis in October to discuss with Mr. Melville Dewey, head of the first professional library school which was ever established (New York State Library School), and with Mr. W. H. Brett, Dean of the latest library school to be established (Western Reserve University), the value of undergraduate courses in library science. Both Mr. Dewey and Mr. Brett were much interested and felt that such preliminary courses would add greatly to the character of the work done in the regular professional schools.

It had been the hope that some arrangement could be made whereby these courses could be begun next year, one course being given as a Sophomore elective followed by Junior and Senior electives. It was plainly stated, as you may remember, that the work could be done next year without additional teaching force, but it was also honestly stated that the year after in order to carry two courses and the third year in order to carry three courses, additional members of the Library Staff would be required. It was this feature, involving as it did financial considerations, which made it seem best to drop the plan for the present year.

STAFF

There have been no changes in the Library Staff during the past year. The work has been carried on under the organization which has been outlined in previous reports, and which has worked to our great satisfaction. The lack of money for new orders has enabled the Accession Department to accomplish some important work in filling sets of documents. The lack of new books also gave time to the Reference Department for continuous work on the catalogue of English literature. This work has been in charge of Miss Martha Hartford, and is nearing completion. It

will prove, I am sure, a work of sterling scholarship and great value. A definite account of it is withheld until next year's report.

It is a pleasure to report to you the ever increasing efficiency of all the members of the Library Staff.

Very respectfully submitted,

OLIVE JONES,
Librarian.

REPORT OF THE TREASURER.

COLUMBUS, OHIO, June 30, 1905.

To the President of the Board of Trustees of the Ohio State University:

SIR:—I hand you herewith my annual report for the fiscal year ending June 30, 1905, accompanied by duly receipted vouchers for all disbursements.

Very respectfully,

L. F. KIESEWETTER,

Treasurer.

STATEMENT NO. I

DETAILED STATEMENT OF RECEIPTS BY L. F. KIESEWETTER,
TREASURER, DURING FISCAL YEAR ENDING JUNE 30, 1905.

Date.	From Whom.	For What Purpose.	Amount.
1904.			
July 1	Balance		\$12,035 00
8	U. S. Government.....	Appropriation acct., Aug. 30, '90	25,000 00
Aug. 27	Com. Sinking Fund.....	Int. on endowment.....	5,600 00
	Chas. B. Morrey.....	Tickets com. luncheon.....	89 00
	C. W. Griffith.....	Hay	9 00
	C. W. Foulk.....	Summer chem. fees.....	5 00
	Case Mfg. Co.....	Refund	1 00
	Herbert Osborne.....	Lake laboratory fees.....	390 00
	F. E. Sanborn.....	Cash sales	86 56
	Erner & Hopkins.....	Refund	3 16
Sept. 9	Auditor of State.....	Req. No. 123, O. S. U. fund.	31,858 25
20	Carl E. Steeb, Bursar.....	Students' fees	3,200 00
21	Carl E. Steeb, Secy.....	Students' fees	8,184 74
22	Carl E. Steeb, Secy.....	Students' fees	2,378 78
	Auditor of State.....	Req. No. 124, Mines appr...	1,972 85
24	Carl E. Steeb, Secy.....	Students' fees	1,118 56
	R. M. Royer.....	Sale store room cards.....	1,800 00
27	R. M. Royer.....	Sale store room cards.....	495 00
	Carl E. Steeb, Secy.....	Students' fees	303 61
Oct. 10	R. M. Royer.....	Sale store room cards.....	205 00
	R. M. Royer.....	Sale store room cards.....	500 00
	R. M. Royer.....	Sale store room cards.....	120 00
	Geo. B. Kauffman.....	Rent	180 00
	H. C. Lord.....	Rent	30 00
	A. R. Knight.....	Shop work fee.....	5 00
	Dr. W. H. Scott.....	Brick	2 00
	Not known	Conscience money	5 00
	C. H. Woodruff.....	Hay	1 50
	Carl E. Steeb, Secy.....	Students' fees	1,005 71
	G. B. Foerster.....	Summer shop	13 00
18	Com. Sinking Fund.....	Int. on endowment.....	5,000 00
	Carl E. Steeb.....	Students' fees	198 00
	T. A. Randall.....	N. B. M. A. scholarship.....	250 00
	H. C. Price.....	Printing bill	6 00
21	Auditor of State.....	Req. 125, O. S. U. levy.....	20,777 49
	Auditor of State.....	Req. 126, O. S. U. levy.....	8,339 83
Nov. 22	Auditor of State.....	Req. 127, Physics bldg.....	6,815 30
	Auditor of State.....	Req. 128, Mines.....	3,040 00
	Wm. T. Magruder.....	Refund carpt. work.....	12 00
	B. F. Thomas.....	Rent	216 00
	C. R. Dils.....	Vet. clinic fees.....	71 30
	R. M. Royer.....	Store room cards.....	240 00
	H. C. Lord.....	Rent	30 00
	Wm. McPherson.....	Rent	66 00
	Alexis Cope.....	Va. Mil. land deeds.....	14 00
	C. R. Dils.....	Vet. clinic fees.....	75 90
	Col. Buggy Co.....	Refund	3 00
	Com. Sinking Fund.....	Int. on endowment.....	3,500 00
23	Auditor of State.....	Req. No. 129, O. S. U. levy.	21,168 12
29	Carl E. Steeb.....	Fees, 1903-4	105 90
	Carl E. Steeb.....	Fees, 1904-5	261 93

STATEMENT No. I—Continued.

Date.	From Whom.	For What Purpose.	Amount.
1904.			
Dec. 3	Auditor of State.....	Req. No. 130, O. S. U. levy.	20,025 00
9	Auditor of State.....	Req. No. 131, fire fund....	1,659 52
	Auditor of State.....	Req. No. 132, O. S. U. levy.	12,477 81
	Auditor of State.....	Req. No. 135, O. S. U. levy.	4,451 67
	Auditor of State.....	Req. No. 137, O. S. U. levy.	1,000 00
	Carl E. Steeb.....	Students' fees	141 95
10	Auditor of State.....	Req. No. 134, Chem. bldg..	2,572 83
	Auditor of State.....	Req. No. 133, Mines bldg..	3,050 52
	Auditor of State.....	Req. No. 136, Chem. bldg..	2,500 00
19	Auditor of State.....	Req. No. 138, O. S. U. levy.	16,826 45
	Wm. C. McCracken.....	Old stove	2 00
	M. A. Stoner.....	Laboratory fees	79 40
	Alexis Cope, Agt.....	Deeds Va. Mil. land.....	14 00
	John S. Norris.....	Diploma fees	10 00
	Com. Sinking Fund.....	Int. on endowment.....	3,000 00
	Carl E. Steeb.....	Students' fees	106 58
31	Carl E. Steeb.....	Students' fees	74 64
	Com. Sinking Fund.....	Int. on endowment	333 13
	Com. Sinking Fund.....	Int. on Robinson D.....	163 19
	Wm. McPherson.....	Rent	60 00
	H. C. Lord.....	Rent	90 00
	S. N. Lucas.....	Refund	9 00
1905.			
Jan. 3	Carl E. Steeb, Secy.....	Students' fees	4,127 05
4	Carl E. Steeb, Secy.....	Students' fees	5,666 68
	C. W. Diltz.....	Vet. clinic fees	129 35
	J. D. Brush.....	Sale old stone and brick...	350 00
	R. M. Royer.....	Store room cards.....	300 00
5	Carl E. Steeb, Secy.....	Students' fees	552 00
13	Carl E. Steeb, Secy.....	Students' fees	825 05
	Auditor of State.....	Req. No. 139, O. S. U. levy.	3,245 00
17	Auditor of State.....	Req. No. 140, O. S. U. fund.	3,526 88
	Carl E. Steeb, Secy.....	Students' fees	148 40
	R. M. Royer.....	Store room cards	225 00
	R. M. Royer.....	Store room cards	300 00
	R. M. Royer.....	Store room cards	300 00
	R. M. Royer.....	Store room cards	300 00
	B. F. Thomas.....	Rent	108 00
	Wm. C. McCracken.....	Old stone and brick.....	78 50
26	Auditor of State.....	Emerg allowance	5,053 80
	Com. Sinking Fund.....	Int. on endowment.....	3,000 00
	Geo. B. Kauffman.....	Rent	300 00
	Alexis Cope.....	Deeds Va. Mil. lands.....	4 00
	C. L. Moore.....	Dormitory rent	3 00
Feb. 14	Carl E. Steeb, Secy.....	Students' fees	3,510 65
	R. M. Royer.....	Store room cards.....	100 00
	F. R. Shinn, Adm.....	Rent Eggers' lot.....	75 00
	Wm. McPherson.....	Rent	30 00
	F. E. Sanborn.....	Supplies	285 33
	Alexis Cope.....	O. M. L. deeds.....	14 00
	H. C. Lord.....	Rent	30 00
	York Mach. Co.....	Freight and cartage.....	7 17
17	Carl E. Steeb, Secy.....	Students' fees	668 55
	R. P. Marsteller.....	Fees, vet. clinic	80 00
24	Auditor of State.....	Req. No. 142, O. S. U. levy.	21,648 44
	Carl E. Steeb.....	Students' fees	178 00
	Com. Sinking Fund.....	Int. on endowment.....	2,000 00

STATEMENT No. I — Continued.

Date.	From Whom.	For What Purpose.	Amount.
1905.			
27	Auditor of State.....	O. S. U. levy No. 141.....	3,269 03
Mch. 7	Auditor of State.....	Req. No. 143, O. S. U. levy.	17,407 09
	H. C. Lord.....	Rent.....	30 00
	R. M. Royer.....	Store room cards.....	200 00
	R. M. Royer.....	Store room cards.....	250 00
	N. S. Good.....	Supplies.....	19 77
	B. F. Thomas.....	Rent.....	108 00
	C. E. Steeb.....	Students' fees.....	81 75
11	Auditor of State.....	Req. No. 144, O. S. U. levy.	21,651 48
	Auditor of State.....	Req. No. 145.....	3,663 24
	Alexis Cope.....	Va. Mil. land deeds.....	10 00
	R. P. Marsteller.....	Vet. clinic fees.....	48 85
	R. M. Royer.....	Store room cards.....	300 00
18	R. M. Royer.....	Store room cards.....	100 00
	Auditor of State.....	Emergency allowance, dairy.	3,401 55
	R. Marshall.....	Lab. fee (shop).....	1 00
	Carl E. Steeb.....	Students' fees.....	87 45
April 4	Wm. McPherson.....	Rent.....	30 00
	Elect. Sup. & Const. Co.....	Refund.....	18 55
	C. U. Telephone Co.....	Refund.....	6 00
	Miss Stoner.....	Student fees.....	84 00
	H. C. Lord.....	Rent.....	30 00
	Buckeye Mach. Co.....	Boilers.....	400 00
	B. F. Thomas.....	Labor on campus.....	4 97
	Carl E. Steeb, Secy.....	Student fees.....	35 92
5	Carl E. Steeb, Secy.....	Student fees.....	4,618 39
6	Carl E. Steeb, Secy.....	Student fees.....	3,890 00
	Com. Sinking Fund.....	Int. on endowment.....	3,500 00
8	C. E. Steeb, Secy.....	Student fees.....	954 00
14	C. E. Steeb, Secy.....	Student fees.....	422 15
	Auditor of State.....	Req. No. 146, O. S. U. levy.	21,621 12
	John Siebert.....	Contribution, Siebert library.	100 00
	Louis Siebert.....	Contribution, Siebert library.	100 00
	Wm. McPherson.....	Rent.....	30 00
	F. E. Sanborn.....	Lab. supplies.....	340 42
	R. P. Marsteller.....	Vet. clinic fees.....	50 00
	R. P. Marsteller.....	Vet. clinic fees.....	82 10
May 4	E. P. Van Duzen.....	Hort. fee, winter term.....	1 00
	J. B. Nash.....	Dorn. fee, winter term.....	1 50
	C. F. Smith.....	Ind. arts, winter term.....	1 00
	Alexis Cope.....	Deeds, Va. Mil. lands.....	10 00
	R. M. Royer.....	Store room cards.....	150 00
	R. P. Marsteller.....	Fees, vet. clinic.....	36 95
	H. C. Lord.....	Rent.....	30 00
	Cols. Plow Works.....	Old iron.....	35 02
	C. E. Steeb.....	Students' fees.....	126 89
	Auditor of State.....	Req. No. 147, O. S. U. levy.	5,095 22
	Auditor of State.....	Req. No. 148, Chem. bldg..	142 03
	Auditor of State.....	Req. No. 149, Chem. bldg..	3,519 75
	Auditor of State.....	Req. No. 150, Chem. bldg..	6,080 00
	Alexis Cope.....	Deeds, Va. Mil. lands.....	4 00
23	Auditor of State.....	Req. No. 151, Mines bldg..	5,179 33
	R. M. Royer.....	Store room cards.....	300 00
	R. P. Marsteller.....	Vet. clinic fees.....	100 00
26	Auditor of State.....	Req. No. 152, O. S. U. levy.	16,150 25
June 1	Com. Sinking Fund.....	Int. on endowment.....	6,000 00
	Wm. Pherson.....	Rent.....	30 00

STATEMENT No. I—Concluded.

Date.	From Whom.	For What Purpose.	Amount.
1905.			
June 5	Auditor of State.....	Req. No. 153, State levy.....	14,687 50
	E. A. Hitchcock.....	Stenog. services	25 00
	Wm. C. McCracken.....	Old iron	50 00
	R. P. Marsteller.....	Vet. clinic fees	114 90
10	Auditor of State.....	Req. No. 154, O. S. U. levy.	21,536 25
	Auditor of State.....	Req. No. 155, Chem. bldg..	6,584 98
	Carl E. Steeb.....	Diploma fees	300 00
22	Carl E. Steeb.....	Diploma fees	835 00
	C. B. Morrey.....	Commencement lunch	102 00
	C. E. Steeb.....	Civil engr. fees.....	186 00
	B. A. Eisenlohr.....	Rent	216 00
	R. P. Marsteller.....	Vet. clinic fees	90 05
	Auditor of State	Req. No. 156, O. S. U. fund.	3,530 75
27	Carl E. Steeb.....	Student fees	52 13
	Carl E. Steeb.....	Summer shop fees	130 50
	Carl E. Steeb.....	Summer School fees.....	618 00
	Alexis Cope	Va. Mil. Land deeds.....	26 00
	R. P. Marsteller.....	Vet. fees	49 00
	Wm. McPherson	Rent	60 00
30	Com. Sinking Fund.....	Int. on endowment.....	4,835 88
	R. M. Royer.....	Store room cash sales.....	600 00
	Com. Sinking Fund.....	Int. on Robinson fellow- ship	162 42
	Standard Oil Co.....	Rebate on Orton bill.....	2 40
	Carl E. Steeb.....	Student fees	4 48
	Carl E. Steeb.....	Summer school	264 00
	E. A. Hitchcock.....	Bill paid by E. & Bigelow..	73
	Carl E. Steeb.....	Summer shop fees.....	1 00
	Total		\$477,610 71

STATEMENT NO. II.

DETAILED STATEMENT OF DISBURSEMENTS BY L. F. KIESEWETTER,
DURING FISCAL YEAR ENDING JUNE 30, 1905.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
July 16	W. K. Burnell.....	Labor	1	\$3 00
	John Brandon	"	2	46 50
	E. L. Clements	"	3	36 75
	Quincy Cather	"	4	36 75
	Walter Cranston	"	5	18 37
	W. O. Dean.....	"	6	24 25
	F. G. Green.....	"	7	88 02
	W. D. Griffith.....	"	8	53 40
	Ellsworth Gough	"	9	44 80
	D. L. Hurst.....	"	10	31 87
	Samuel Lowery	"	11	41 60
	Chester W. McClintock.....	"	12	25 50
	Allen McOwen	"	13	12 37
	J. C. Miron.....	"	14	32 70
	E. E. Moore.....	"	15	10 57
	T. M. Montgomery.....	"	16	9 50
	Roy Pratt	"	17	14 40
	Marion Peck	"	18	12 45
	J. H. Randall.....	Carpenter	19	32 62
	John A. Schneider.....	Carpenter	20	62 25
	E. D. Ward.....	Labor	21	3 00
	D. W. McGrath.....	Est. No. 3, Physics		
		bl'g.	22	7,120 96
	The Erner-Hopkins Co.....	Elect. supplies	23	361 96
	Chas T. Howe Music Co.....	Music	24	52 00
18	W. A. Knight.....	Labor	25	120 00
	W. H. Renck.....	"	26	120 00
	C. P. Crowe.....	"	27	100 00
	R. M. Rownd, P. M.....	Stamps	28	105 00
	R. M. Rownd, P. M.....	Stamps	29	10 00
	Rosecoe C. McCulloch.....	Return fees	30	30 00
20	E. G. Lane.....	80 hrs. janitor work		
		@ 15 c	31	12 00
21	C. U. Telephone Co.....	Phone rental	32	10 00
22	F. E. Sanborn.....	Salary	33	160 00
23	R. M. Royer.....	Salary, July	34	70 00
	C. M. Beem.....	"	35	40 00
25	W. O. Thompson.....	"	36	416 67
	K. H. Duncan.....	"	37	75 00
	R. M. Rownd, P. M.....	Stamps	38	60 00
	R. M. Royer.....	Store room refunds..	39	13 15
26	Alexis Cone	Salary, July	40	187 50
	Carl E. Steeb.....	July salary	41	83 33
	Edith D. Cockins.....	"	42	75 00
	Minnie F. Hines.....	"	43	40 00
	Wm. C. McCracken.....	"	44	150 00
	Wm. Standley	"	45	65 00
	W. H. Case.....	"	46	55 00
	Benj. Le Bay.....	"	47	55 00
	George Rose	"	48	75 00
	Chas. Hicks	"	49	45 00
	Joseph Black	"	50	25 00
	G. A. Goodspeed.....	"	51	40 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
July 26	Guy Murphy	Salary July, 20 days.	52	19 50
	W. R. Thomas	July salary	53	40 00
	Wm. Whitestein	"	54	40 00
	Harry Chantler	"	55	40 00
	Wash Townsel or Bearer..	"	56	20 00
	Frances Andrix	"	57	30 00
	G. C. Denny	"	58	40 00
	M. W. Cook	"	59	40 00
	Wm. E. Cook	"	50	40 00
	John Brown	"	61	40 00
	John Brown	"	62	25 00
	John W. Brown	"	63	15 00
	H. M. Templin	"	64	40 00
	A. B. Probert	"	65	45 00
	John Ricketts	"	66	45 00
	James Kelley	"	67	30 00
	C. H. Woodruff	"	68	70 00
	J. P. Covan	"	69	83 33
	A. F. Hall	"	70	73 33
	Alex Argo	"	71	60 00
	Laurel Hill	"	72	40 00
	Wm. C. Mills	"	73	40 00
	Pearl Coutellier	"	74	10 00
	James McOwen	"	75	40 00
	All Case	"	76	60 00
Dec. 19	Wm. Standley	December salary	77	65 00
July 26	L. W. Funk	July salary	78	60 00
	H. Osborn	"	79	225 00
	W. A. Kellerman	"	80	225 00
	Jas. G. Sanders	"	81	100 00
	F. L. Landacre	"	82	120 00
	Alex Argo	June salary	83	60 00
28	H. L. Beach	Labor	84	2 87
	F. E. Bentler	Supplies	85	2 16
	A. A. Bolenbaugh	Labor	86	12 68
	J. A. Bradford	Cash adv.	87	5 40
26	F. C. Caldwell	Supplies	88	19 39
	V. H. Davis	July salary	89	83 33
28	Effie Duncan	Services	90	16 15
	Mary A. DeCamp	Services	91	11 56
	H. I. Dodson	Labor	92	3 50
	C. W. Foulk	Supplies	93	3 50
	Ida May Fisher	Labor	94	19 80
	C. P. Linhart	Labor of Gebier	95	5 00
	Jno. M. Harsh	Labor	96	5 97
	Lilian Huffman	Services	97	20 00
	J. B. Harshman	Labor	98	1 50
27	Jerry Clements	Cleaning boilers	99	32 00
28	F. C. Caldwell	Wiring	100	542 19
	E. A. Hitchcock	Supplies	101	3 16
	A. L. Harrington	Labor	102	11 50
	J. S. Hine	Advertisement re- prints	103	29 75
	C. H. Kerr	Labor	104	2 80
	Madden-Darrah Wall Paper Co.	Repairs	105	211 20
	W. A. Kellerman	Postage	106	5 00
	S. N. Lucas	Nightwatch	107	9 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. July 28	Thos. W. Lang.....	Labor	108	4 00
	William McPherson	Cash advanced.....	109	14 00
	Wm. T. Magruder.....	Supplies	110	18 41
	Gretchen Miller	Labor	111	11 75
	Clara G. Mark	Labor	112	19 25
	Belle E. Norton.....	Services	113	1 65
	H. C. Price	Expenses	114	19 24
	C. S. Plumb.....	Cash adv., expenses..	115	22 90
	Helen Powell	Labor	116	12 60
	Roy Pratt	Watching	117	7 20
	W. H. Redhead.....	Labor	118	4 80
	C. W. Reeder.....	Labor	119	12 91
	Frank A. Ray.....	Cash adv.	120	68 95
	M. G. Roberts.....	Labor	121	2 65
	E. T. Sill	"	122	6 50
	G. L. Shipp.....	"	123	1 25
	W. R. Thomas.....	"	124	1 50
	Lily Weeks	"	125	1 50
	Geo. A. Washburne.....	"	126	15 75
	Wm. Whitestein	"	127	2 40
	J. A. Wilkinson.....	"	128	10 65
	C. H. Woodruff.....	"	129	10 00
	Edward Orton, Jr.....	Cash adv.	130	42 79
	W. O. Thompson.....	Expenses	131	9 25
	Thos. E. French.....	Labor	132	11 00
	B. F. Thomas.....	Expenses	133	44 63
29	Fréd W. Atcherson.....	Coach service	134	8 00
	Andrus, Scofield Co.....	Sacks	135	1 40
	Artura Photo Paper Co....	Supplies	136	12 38
	Bonnett & Ross Co.....	Repairing clock	137	1 50
	Bucher Engr. and Mfg. Co..	Half-tones	138	9 15
	The David C. Beggs Co....	Curtains	139	20 00
	Blackwood, Green & Co....	Repairing	140	100 67
	H. Braun Sons & Co.....	Chem. supplies	141	33 87
	Citizens Ice Co.....	Ice	142	7 50
	J. W. Coon.....	Cards	143	15 00
	Case Mfg. Co.....	Pulley	144	2 07
	Jas. P. Carlile.....	Plaster-paris	145	2 75
	The Cols. Mill & Mine Sup- ply Co.	Supplies	146	1 44
	Geo. D. Cross Lumber Co..	Lumber	147	102 30
	Cols. Macadam Co.....	Crushed stone	148	16 20
	Cols. Plate & Window Glass Co.	Glass	149	2 10
	The Central Ohio Fence Co.	Fence	150	35 75
	The Central Ohio Paper Co.	Exam. books	151	145 00
	The Cols. Gas Co.....	Coke	152	142 57
	The Champlin Ptg. Co.....	Printing, etc.	153	179 35
	Columbus Supply Co.....	Supplies	154	15 33
	Capital City Mach. Wks....	"	155	22 53
	Dunn, Taft & Co.....	Cloth	156	7 18
	C. H. Davis.....	Machine	157	50 00
	W. J. Davidson.....	Hauling and feed....	158	2 60
	E. Doddington & Co.....	Lumber	159	17 03
	Engineers & Plumbers Sup- ply Co.	Pipe	160	207 98
	Engelke & Bigelow.....	Freight and cartage..	161	15 77

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. July 29	Electric Supply and Const. Co.	Elect. supplies	162	9 09
	The Erner-Hopkins Co.	Elect. supplies	163	77 73
	F. W. Freeman	Supplies	164	11 43
	The Franklin Park Floral Co.	Flowers	165	144 00
	Edw. E. Fisher Co.	Chairs loaned	166	4 00
	The Green-Joyce Co.	Ribbon and towels	167	27 91
	The Hanna Paint Mfg. Co.	White lead	168	3 50
	The Hamilton-Parker Co.	Thac lump	169	6 50
	The P. Hayden Sadd. Hdwr. Co.	Castings	170	4 80
	John R. Hellenenthal	Wreath	171	15 00
	Hann & Adair	Printing	172	54 42
	R. R. Johnston	Luncheon	173	388 60
	Jeffrey Mfg. Co.	Varnishing	174	1 50
	Krauss-Butler & Benham Co.	Decorating	175	25 00
	Kilbourne, Jacobs Mfg. Co.	Repairs	176	11 25
	W. J. Koken & Son	Painting	177	28 80
	Kelton & Converse	Lumber	178	141 00
	The Kauffman-Lattimer Co.	Supplies	179	35 77
	The M. C. Lilley & Co.	Flag	180	11 84
	Livingston Seed Co.	Seeds	181	7 25
	McAllister, Mohler Co.	Chairs loaned and hauling	182	10 00
	J. J. Marvin	Doors, etc.	183	33 60
	Murray City Coal Co.	Coal	184	439 49
	McClelland & Co.	Paper and ink	185	1 60
	The North Amer. Farmer	Copies	186	15 00
	Nitschke Bros.	Printing	187	10 10
	Ohio Furniture and Mantel Co.	Case	188	26 00
	T. J. O'Neil	Canvas	189	18 00
	Orr, Brown & Price	Supplies	190	28 24
	The Onyx Paint Co.	Paint	191	6 05
	Payne, McDonald Hdwr. Co.	Glass	192	2 60
	James Penn	Hauling and feed	193	11 65
	E. H. Sell & Co.	Carbon papers	194	1 75
	Sapp Bros.	Sickle grinder	195	5 00
	Spahr & Glenn	Printing	196	34 50
	Smith Bros. Hdwr. Co.	Shovels	197	2 20
	Schoedinger, Fearn & Co.	Range	198	33 00
	A. H. Smythe	Supplies	199	1 95
	Schroth & Potter	Shades	200	2 00
	Standard Oil Co.	Oil	201	12 66
	F. B. Toothaker	Ptg. briefs	202	20 25
	Tracy-Wells & Co.	Crayons	203	9 80
	Tallmadge Hdwr. Co.	Supplies	204	34 23
	Taylor Williams	Coal	205	11 55
	George M. Vaughn	Repairs	206	3 62
	A. R. Warden	Posts	207	8 00
	Wilkin, Redman Co.	Tuning piano and hauling	208	7 00
	R. W. Whiteman & Co.	Painting	209	48 00
	Weiman Machine Co.	Valves	210	2 00
	A. L. Yardley	Screens	211	21 00
80	R. M. Rownd, P. M.	Stamps, etc.	212	2 75

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Aug. 1	The W. H. Anderson Co..	Reports	213	2 50
	The Burrows Bros. Co.....	Books	214	22 94
	Cleveland Twist Drill Co...	Drills, etc.	215	3 59
	The Cleveland-Akron Bag Co.	Bags	216	7 58
	Crosby Steam Gage and Valve Co.	Repairs	217	19 25
	Engineering and Mining Journal	Advertising	218	8 29
	Foote Mineral Co.....	Specimens	219	22 00
	General Electric Co.....	Regulator	220	104 00
	Arthur Hawkrige	Oxygen	221	22 00
	Keasbey & Mattison.....	Covering	222	600 00
	Peter Henderson & Co.....	Repairs	223	21 40
	W. C. Holt Mfg. Co.....	Dusters	224	16 00
	The Hurnewell Soap Co....	Soap	225	34 25
	J. L. Holcomb Mfg. Co....	Brushes	226	88 72
	The Hohmann & Maurer Mfg. Co.	Glass	227	8 25
	India Alkali Works.....	Marbleca savograc ..	228	23 70
	Library Bureau	Guides book	229	11 00
	The Lagonda Mfg. Co.....	Supplies	230	200 00
	Murphy Iron Works.....	Supplies and bars...	231	28 00
	T. H. McAllister.....	Supplies	232	71 78
	J. E. Armstrong.....	Dues	233	10 00
	T. A. Randall & Co.....	Advertising	234	36 00
	Albert McMichael	Engrossing diplomas.	235	39 40
	Sandusky, Portland Cement Co.	Sand	236	6 40
	Standard Oil Co.....	Gasoline	237	9 60
	Shultz Belting Co.....	Supplies	238	63 60
	Smithsonian Institution ...	Books	239	20 35
	G. E. Stechert.....	Books	240	3 45
	Spencer Lens Co.....	Apparatus	241	15 75
	Smith Premier Typewriter Co.	Repairs	242	4 50
	Edward Thompson Co.....	Encyclopedia	243	6 00
	Arthur H. Thomas Co.....	Beakers	244	26 32
	Univ. of State of New York.	Supplies, postage, ec.	245	3 24
	Williams, Brown & Earle...	Slides	246	4 20
	Ward Brothers	Binding of journal ..	247	57 85
	Whitall Tatum Co.....	Supplies	248	63 45
	Weston Elect. Inst. Co.....	Equipment and re- pairs	249	187 59
	Walter F. Martin.....	July salary	250	20 00
	R. M. Rownd, P. M.....	100 2c stamps.....	251	2 00
	R. M. Rownd, P. M.....	2000 No. 7 envelopes	252	43 60
3	George Rose	Repairs	253	18 66
	H. C. Lord.....	Petty supplies	254	5 00
	L. F. Kiesewetter, Treas...	Int. 6% on 30,000 ctf indebt due 6/15/04	255	600 00
4	C. U. Telephone Co.....	Toll service phone rental	256	6 80
5	Cols. Citizens Telephone Co.	Phone rental	257	168 60
	H. W. Kuhn.....	Cash adv	258	6 50
6	Madden-Darrah Wall Paper Co.	Repairs	259	246 00
8	Harlan H. York.....	July salary	260	50 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
Aug. 9	Nelson Beaver	Repairs	261	15 00
	J. H. Randall	"	262	75 37
	Jno. A. Schneider	"	263	75 75
	D. W. McGrath	Est. No. 4 Physics bldg	264	10,572 28
10	Thos. Boude	Labor	265	43 75
	Ellsworth Gough	"	266	21 00
	Samuel Lowery	"	267	40 00
	Roy Pratt	"	268	9 80
	Marion Peck	"	269	48 00
	Sherman Wolfe	"	270	36 75
	Roy Pratt	"	271	12 60
11	W. E. Shew	"	272	32 00
	Quincy Cather	"	273	36 52
	E. L. Clements	"	274	35 85
	F. G. Green	"	275	74 72
	W. D. Griffith	"	276	57 00
	J. C. Miron	"	277	33 30
12	Allen McOwen	"	278	19 12
	D. L. Hurst	"	279	27 62
15	Carl E. Steeb	August salary	280	83 33
	Madden-Darrah Wall Paper Co.	Repairs	281	386 54
	Harry Covan	127 hrs. labor @ 20c	282	25 40
	Harry Cranston	5 hrs. labor @ 15c	283	75
	H. L. Bostater	Repairs	284	88
	M. E. Barr	11 hrs. wiring @ 25c	285	2 75
	Morris Churchman	35 hrs. as clerk @ 15c	286	5 25
	H. D. Cranston	73 hrs. wir. Phys. bldg	287	18 25
	W. O. Dean	130½ hrs. wiring @ 25c	288	34 87
	H. P. Judd	25 hrs. testing oils @ 50c	289	12 50
	E. E. Moore	25 hrs. work @ 15c	290	4 20
	W. A. Kellerman	Sundries	291	10 28
	Morris Churchman	70 hrs. clerk work @ 15c	292	10 50
16	Austin Moore	Repairs	293	29 25
	Thomas M. Montgomery	184 hrs. guide @ 12½c	294	23 00
17	W. J. Cohen & Son	Repairs	295	6 00
18	Wm. W. Hennich	Harness	296	110 75
	Geo. A. Gawler	Oiling arithmometer	297	1 00
	Frankenberg Bros.	48 mailing tubes	298	72
	Geo. D. Cross Lumber Co.	Lumber	299	29 12
	T. J. O'Neil	Repairs	300	60 00
	The O'Kane-Hull Co.	95 con. receptacles	301	9 50
	Ben D. Potts	Repairs	302	1 48
	R. L. Polk & Co.	Two city directories	303	10 00
	Columbus Sewer Pipe Co.	Sewer pipe	304	31 39
	The Onyx Paint Co.	Paints	305	36 79
	The Bowden Towel Supply Co.	Towels	306	33 51
	American Dist. Telegraph Co.	Night watch service	307	96 00
	Kelton & Converse	Lumber	308	52 00
	A. G. Geren	Ruling pen	309	1 25
	Engelke & Bigelow	Cartage	310	27 34

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Aug. 18	Cols. Mill and Mine Supply Co.	Pipe and fittings....	311	339 49
	Capital City Machine Works.	Labor and neat.....	312	24 68
	The Erner-Hopkins Co.....	Elec. supplies, arc lamps	313	84 60
	Columbus Supply Co.....	Pipe and fittings....	314	112 28
	Columbus Brass Co.....	Plumber goods	315	74 70
22	Chas. W. Gayman, Editor...	Advertising	316	10 00
	Nitschke Bros.	Printing	317	4 50
	James Penn	Corn and rye.....	318	2 96
	Frank A. Ray.....	Work	319	3 00
	The Ruggles-Gale Co.....	Pad and binding....	320	3 15
	Sapp Bros.	Wagon planter drill cuet	321	206 00
	Schoedinger Fearn & Co....	Stove-hardware	322	4 51
	Fred H. Tibbetts.....	Printing	323	15 10
	Tallmadge Hardware Co....	Glass	324	3 00
23	Guy W. Mallon.....	Expenses	325	22 50
	Columbus Gas Co.....	Fuel and light.....	326	221 41
	W. U. Telegraph Co.....	Telegrams	327	12 36
	W. O. Thompson.....	Aug. salary	328	416 67
	Adrianne Platt & Co.....	Plate, etc	329	2 15
	Chapman Valve Mfg. Co....	Supplies	330	149 25
	Knowles Steam Pump Wks.	Pump	331	35 20
	Murphy Iron Works.....	Supplies	332	28 00
	The Smith-Lee Co.....	Caps	333	12 00
	Standard Underground Cable Co.	Cables	334	355 34
	Stillwell Bierce & Smith Vaile Co.	Supplies	335	1 25
	Westinghouse Machine Co..	"	336	18 30
	The Wagner Glass Works...	Apparatus	337	25 40
	C. U. Telephone Co.....	Phone rental	338	2 50
	Laurel L. Hill.....	Aug. salary.....	339	40 00
24	John Brown	"	340	25 00
27	Alexis Cope	"	341	187 50
	K. H. Duncan.....	"	342	75 00
	E. D. Cockins.....	"	343	75 00
	Minnie Hines	"	344	40 00
	W. C. McCracken.....	"	345	150 00
	Wm. Stoddy	"	346	65 00
	W. H. Cas	"	347	55 00
	Thos. Bond	"	348	50 00
	Benj. LeBay	"	349	55 00
	George Rose	"	350	75 00
	Harry Osborne	"	351	25 00
	Chas. Hicks	"	352	45 00
	Joseph Black	"	353	25 00
	G. A. Goodspeed.....	"	354	40 00
	C. M. Beem.....	"	355	40 00
	W. R. Thomas.....	"	356	40 00
	Wm. Whitestein	"	357	40 00
	Harry Chauther	"	358	40 00
	Wash Townsel	"	359	20 00
	Frances Andrix	"	360	30 00
	G. C. Denny.....	"	361	40 00
	M. N. Cook.....	"	362	40 00
	Wm. E. Cook.....	"	363	40 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
Aug. 27	John W. Brown.....	Aug. Salary.....	364	40 00
	John Brown	"	365	15 00
	H. M. Templin.....	"	366	40 00
	W. F. Martin.....	"	367	20 00
	A. B. Probert.....	"	368	45 00
	John Ricketts	"	369	45 00
	James Kelley	"	370	30 00
	C. H. Woodruff.....	"	371	70 00
	J. P. Covall.....	"	372	83 33
	A. F. Hall.....	"	373	73 33
	Alex Argo	"	374	60 00
	V. H. Davis.....	"	375	83 33
	R. M. Royer.....	"	376	70 00
	L. W. Funk.....	"	377	60 00
	Charles R. Hall.....	Rhysical Building....	378	22 30
	James McOwen	Aug. salary.....	379	40 00
	Pearl Coutellier	"	380	10 00
	Sherman Wolfe	"	381	50 00
	H. H. York.....	"	382	50 00
	Wm. R. Mills.....	"	383	40 00
	Harriet Schneider	"	384	40 00
30	Postal Telegraph Cable Co..	Telegram	385	1 08
Sept. 2	R. M. Rownd, P. M.....	Stamps	386	2 00
3	Madden-Darrah Wall Paper Co.			
		Repairs	387	116 40
7	Karl Kruger	Watchman	388	8 75
10	S. A. Black.....	Repairs	389	24 00
	Nelson Beaver	"	390	73 13
	E. L. Clements.....	Labor	391	37 42
	Quincy Cathers	"	392	38 17
8	Madden-Darrah Wall Paper Co.			
		Repairs	393	116 40
9	C. U. Telephone Co.....	Phone rental	394	12 50
	D. W. McGrath.....	Physics bldg	395	6,459 50
10	Harry E. Coran.....	Labor	396	40 60
	H. D. Cranston.....	"	397	75 00
	W. O. Dean.....	"	398	63 25
	William Esken	"	399	19 13
	W. D. Griffith.....	"	400	59 00
	F. G. Green.....	"	401	65 97
	D. L. Hurst.....	"	402	7 50
	E. A. Hitchcock.....	"	403	12 20
	W. A. Kellerman.....	Lab. expenses	404	9 71
	Samuel Lowery	Labor	405	43 20
	Wm. C. McCracken	Expenses	406	16 90
	Thos. M. Montgomery.....	Labor	407	44 90
	O. V. Maurer.....	"	408	2 00
	J. C. Miron.....	"	409	35 70
	Allen McOwen	"	410	1 80
	Morse Osborn	"	411	30 00
	Herbert Osborn	Supplies	412	11 85
	Marion Peck	Labor	413	49 60
	Roy Pratt	"	414	41 60
	Lester Postle	Repairs	415	22 13
	J. H. Randall.....	"	416	79 50
	Carl E. Steeb.....	Notary work	417	6 25
	John A. Schneider.....	Repairs	418	75 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
Sept. 10	Alexis Cope	Exp. trustee	419	2 00
	Ben D. Potts	Supplies	420	62 50
	J. McLain Smith	Expenses	421	30 45
	R. M. Rownd, P. M.	5000 No. 13 env.	422	107 00
12	Amer. Dist. Tel. Co.	Rent boxes	423	44 00
	Artura Photo Paper Co.	Supplies	424	2 39
	John G. Brining	Repairs	425	318 70
	Blackwood, Green & Co.	"	426	67 49
	H. Braun Sons & Co.	Supplies	427	415 53
	Capital City Machine Works.	"	428	25 58
	Cols. Wire and Iron Works.	Repairs	429	2 00
	H. C. Lord	Cash advanced	430	1 85
	Cols. Mill and Mine Supply Co.	Supplies	431	46 35
13	Ellsworth Gough	Labor	432	22 50
	Jacob Stexel	Repairs	433	184 15
15	D. M. Massie	Expenses	434	90 61
16	R. M. Rownd, P. M.	Stamps	435	65 00
	Alexis Cope	Sept. salary	436	187 50
17	W. A. Kellerman	"	437	225 00
	D. P. Lloyd	Cement	438	18 00
19	W. P. Schrock	Labor	439	5 00
	Frank L. Packard	Arch. services	440	1,972 85
	J. R. Taylor	Salary	441	150 00
24	W. O. Thompson	Sept. salary	442	416 67
	C. E. Steeb	"	443	104 16
	K. H. Duncan	"	444	75 00
	Edith D. Cockins	"	445	75 00
	Gertrude Bellows	"	446	40 00
	Bess C. Watters	"	447	30 00
	Minnie F. Hines	"	448	40 00
	W. E. Mann	"	449	41 66
	W. C. McCracken	"	450	150 00
	Wm. Standley	"	451	65 00
	W. H. Case	"	452	55 00
	Thos. Bonde	"	453	50 00
	Benj. Le Bay	"	454	55 00
	Sherman Wolfe	"	455	50 00
	Samuel Lowery	"	456	50 00
	Marion Peck	"	457	45 00
	George Rose	"	458	75 00
	Harry Osborn	"	459	25 00
	Chas. Lewis	"	460	10 00
	Norman Slee	"	461	10 00
	Chas. Hicks	"	462	45 00
	Joseph Black	"	463	25 00
	G. A. Goodspeed	"	464	40 00
	W. M. Stahl	"	465	40 00
	C. M. Beem	"	466	60 00
	W. R. Thomas	"	467	40 00
	Richard Brandon	"	468	20 00
	Wm. Whitstein	"	469	40 00
	Harry Chantler	"	470	40 00
	Wash. Townsel	"	471	20 00
	Frances Andrix	"	472	30 00
	G. C. Denny	"	473	40 00
	M. M. Cook	"	474	40 00
	Andrew Rudell	"	475	20 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Sept. 24	Wm. E. Cook.....	Sept. salary.....	476	40 00
	John W. Brown.....	".....	477	40 00
	John Brown.....	".....	478	25 00
	H. M. Templin.....	".....	479	40 00
	A. B. Probert.....	".....	480	45 00
	John Ricketts.....	".....	481	45 00
	James Kelley.....	".....	482	30 00
	M. S. Harvey.....	".....	483	25 00
	C. H. Woodruff.....	".....	484	70 00
	J. P. Coran.....	".....	485	83 33
	A. F. Hall.....	".....	486	73 33
	J. W. Decker.....	".....	487	170 00
	C. S. Plumb.....	".....	488	200 00
	A. G. McCall.....	".....	489	140 00
	H. S. Arkell.....	".....	490	75 00
	Alex Argo.....	".....	491	60 00
	E. F. Mangold.....	".....	492	60 00
	Laurel Hill.....	".....	493	40 00
	H. C. Price.....	".....	494	225 00
	John Chisholm.....	".....	495	60 00
	H. A. Weber.....	".....	496	225 00
	A. Vivian.....	".....	497	150 00
	Rudolph Hirsch.....	".....	498	60 00
	Geo. W. Knight.....	".....	499	250 00
	A. H. Tuttle.....	".....	500	140 00
	H. R. Spencer.....	Sept. salary.....	501	110 00
	A. M. Bleile.....	".....	502	225 00
	W. Dresbach.....	".....	503	80 00
	R. J. Seymour.....	".....	504	30 00
	J. A. Beer.....	".....	505	30 00
	Wm. C. Mills.....	".....	506	40 00
	Pearl Contellier.....	".....	507	10 00
	J. N. Bradford.....	".....	508	210 00
	T. E. French.....	".....	509	150 00
	T. K. Lewis.....	".....	510	120 00
	Silas Martin.....	".....	511	100 00
	J. H. Vosskuehler.....	".....	512	120 00
	J. S. Tidball.....	".....	513	80 00
	S. B. Williams.....	".....	514	30 00
	H. C. Lord.....	".....	515	225 00
	B. F. Maag.....	".....	516	100 00
	J. H. Schaffner.....	".....	517	130 00
	John T. Mack.....	Expenses.....	518	34 25
	Chas. B. Morrey.....	Sept. salary.....	519	160 00
	H. H. York.....	".....	520	50 00
	H. A. Gleason.....	".....	521	30 00
	Mary McKinley.....	".....	522	30 00
	James McOwen.....	".....	523	40 00
	S. A. Norton.....	".....	524	125 00
	Wm. McPherson.....	".....	525	225 00
21	E. S. Ingraham.....	".....	526	120 00
	W. S. McKinnon, State Treas.....	Professional services.....	527	802 27
	The Frank Tallmadge Co....	Prem. on bond.....	528	19 00
22	Cols. Ry. and Light Co.....	Tickets.....	529	5 00
24	W. E. Henderson.....	Sept. salary.....	530	160 00
	C. W. Foulk.....	".....	531	140 00
	H. R. Watkins.....	".....	532	60 00

STATEMENT No. H — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Sept. 24	C. E. Andrews.....	Sept salary.....	533	80 00
	C. G. Stewart.....	".....	534	60 00
	C. C. Vogt.....	".....	535	30 00
	J. W. Knate.....	".....	536	30 00
	C. E. Sherman.....	".....	537	180 00
	A. H. Heller.....	".....	538	180 00
	Frank Eno.....	".....	539	150 00
	H. D. Brining.....	".....	540	125 00
	C. A. Melich.....	".....	541	60 00
	Edw. Orton, Jr.....	".....	542	200 00
	A. V. Bleining.....	".....	543	100 00
	R. C. Purdy.....	".....	544	50 00
	Metta L. Seymour.....	".....	545	10 00
	M. A. Stoner.....	".....	546	180 00
	May Secrest.....	".....	547	120 00
	Cora Elliott.....	".....	548	25 00
	J. E. Hagerty.....	".....	549	160 00
	M. B. Hammond.....	".....	550	120 00
	D. R. Major.....	".....	551	160 00
	W. W. Boyd.....	".....	552	200 00
	T. H. Haines.....	".....	553	130 00
	F. C. Caldwell.....	".....	554	190 00
	F. A. Fisk.....	".....	555	110 00
	J. S. Riddle.....	".....	556	30 00
	Helen Lambdin.....	Nov. salary.....	557	11 00
	J. V. Denney.....	Sept. salary.....	558	250 00
	A. C. Barrows.....	".....	559	225 00
	W. L. Graves.....	".....	560	130 00
	G. H. McKnight.....	".....	561	130 00
	Mary Malloy.....	".....	562	30 00
	Mina J. Weaver.....	".....	563	30 00
	Gertrude Jackson.....	".....	564	30 00
	W. H. Siebert.....	".....	565	180 00
	E. H. McNeal.....	".....	566	100 00
	C. S. Prosser.....	".....	567	190 00
	J. A. Bownocker.....	".....	568	160 00
	L. A. Rhoades.....	".....	569	225 00
	Geo. V. Viles.....	".....	570	120 00
	B. A. Eisenlohr.....	".....	571	80 00
	J. R. Smith.....	".....	572	225 00
	A. W. Hodgman.....	".....	573	160 00
	W. S. Elder.....	".....	574	160 00
	W. R. Lazenby.....	".....	575	225 00
	V. H. Davis.....	".....	576	83 33
	F. E. Sanborn.....	".....	577	200 00
	W. A. Knight.....	".....	578	120 00
	W. H. Rench.....	".....	579	120 00
	C. P. Crowe.....	".....	580	120 00
	All. Case.....	".....	581	60 00
	S. C. Derby.....	".....	582	225 00
	W. H. Page.....	".....	583	200 00
	E. B. Kinkad.....	".....	584	130 00
	I. A. Shauck.....	".....	585	100 00
	E. O. Randall.....	".....	586	80 00
	G. H. Stewart.....	".....	587	50 00
	Harriet Schneider.....	".....	588	40 00
	Olive Jones.....	".....	589	145 00
	Harriet Townshend.....	".....	590	60 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
Sept. 24	Gertrude Kellicott	Sept salary.....	591	80 00
	Maud Jeffrey	"	592	80 00
	Martha Hartford	"	593	50 00
	Elizabeth Smythe	"	594	40 00
	R. D. Bohannon	"	595	225 00
	G. W. McCoard.....	"	596	160 00
	J. C. Boyd.....	"	597	150 00
	C. L. Arnold.....	"	598	130 00
	K. D. Swartzel.....	"	599	150 00
	H. W. Kuhn.....	"	600	110 00
	S. E. Razor.....	"	601	100 00
	E. F. Coddington.....	"	602	110 00
	W. T. Magruder.....	"	603	225 00
	E. A. Hitchcock.....	"	604	175 00
	Horace Judd	"	605	120 00
	T. W. Holloway.....	"	606	60 00
	N. W. Lord.....	"	607	200 00
	D. J. Demorest.....	"	608	80 00
	Gustav Bruder	"	609	20 00
	F. A. Ray.....	"	610	200 00
	T. B. Simon.....	"	611	30 00
	Geo. B. Kauffman.....	"	612	200 00
	C. A. Dye.....	"	613	110 00
	W. H. Scott.....	"	614	225 00
	A. E. Davies.....	"	615	90 00
	D. C. Huddleson.....	"	616	100 00
	Maud W. Martin.....	"	617	80 00
	Lily Weeks	"	618	17 00
	B. F. Thomas.....	"	619	225 00
	A. D. Cole.....	"	620	200 00
	R. F. Earhart.....	"	621	120 00
	H. D. Ayers.....	"	622	80 00
	B. L. Bowen.....	"	623	225 00
	C. A. Bruce.....	"	624	150 00
	D. S. White.....	"	625	200 00
	S. Sisson	"	626	170 00
	D. H. Udall	"	627	145 00
	O. V. Brumley.....	"	628	100 00
	J. McL. Phillips.....	"	629	160 00
	Herbert Osborne	"	630	225 00
	J. G. Sanders.....	"	631	30 00
	J. D. Hine.....	"	632	120 00
	F. L. Landacre.....	"	633	120 00
	F. M. Surface.....	"	634	25 00
	R. M. Royer.....	"	635	70 00
	L. W. Funk.....	"	636	60 00
	E. B. Dillon.....	"	637	50 00
	J. M. Butler.....	"	638	25 00
	G. W. Rightmire.....	"	639	50 00
	W. F. Martin.....	"	640	20 00
	Max D. Morton.....	"	641	30 00
26	H. H. Hamilton.....	"	642	12 50
28	John Brown	Bal. Sept. salary....	643	15 00
	Metta L. Seymour.....	July and Aug. salaries.	644	20 00
29	B. F. Berg.....	Labor	645	3 35
	C. Glassmaker	"	646	2 25
	May Secrest	Lab. supplies	647	4 50
30	J. R. Hessinger.....	Labor	648	5 78

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
Sept. 30	F. Jones	Labor.....	649	5 78
	J. A. Vonschrietz.....	"	650	7 28
	Pat Demsey	"	651	7 28
	Geo. Hayden	"	652	7 28
	Thos. Tammany	"	653	7 28
	Wm. Ridden	"	654	1 50
	Matt Goetten	"	655	7 28
Oct. 1	Geo. Lyons	"	656	9 18
4	Bowden Towel Supply Co..	Towels	657	76 96
	Bucher Engraving and Mfg. Co.	Half-tones	658	8 40
	Champlin Printing Co.....	Supplies	659	17 25
	Champlin Printing Co.....	"	660	430 45
	Columbus Mdse. Co.....	"	661	11 88
	Columbus Sewer Pipe Co...	"	662	22 69
	Columbus Photo Supply Co.	"	663	4 50
	Geo. D. Cross Lumber Co..	Lumber	664	238 48
	Columbus Brass Co.....	Supplies	665	17 65
	Kelton & Converse.....	Lumber	666	9 94
	McCoy & Skinner.....	Spouting	667	21 00
	W. H. Miller Co.....	Supplies	668	9 85
	Monypenny-Hammond Co...	Matches	669	5 50
	R. H. Morris	Photographs	670	1 75
	Nitschke Bros.	Supplies	671	3 05
	Onyx Paint Co.	"	672	2 80
	Orr, Brown & Price.....	"	673	4 05
	Nitschke Bros.	"	674	13 50
	Ohio Pump and Brass Co..	Repairing	675	3 25
	Pure Milk Co.....	Coupons	676	1 00
	James Penn	Hauling	677	2 00
	Payne, McDonald Hdwe. Co.	Supplies	678	20 25
	E. H. Sell & Co.....	Staples	679	13 75
	Schoedinger, Fearn & Co...	Hardware	680	9 85
	F. F. Spangler	Hauling	681	7 23
	M. P. Streett.....	Labor, etc.	682	208 05
	Williams-Ada Mdse. Co...	Jar	683	56
	Tallmadge Hardware Co...	Supplies	684	182 60
	Engelke & Bigelow.....	Aug. bills	685	53 23
	Madden-Darrah Wall Paper Co.	Repairs	686	378 08
	Columbus Supply Co.....	Supplies	687	162 01
	Kauffman-Lattimer Co.....	"	688	592 93
	Ern -Hopkin Co.....	"	689	70 15
	Bausch & Lomb Optical Co..	"	690	42 34
	H. W. Johns-Manville Co...	"	691	7 34
	Eimer & Amend.....	"	692	321 85
	Foote Mineral Co.....	"	693	7 00
	The Garlock Packing Co....	"	694	24 47
	W. & L. E. Gurley.....	Instruments	695	870 00
	Foster Engineering Co.....	Regulators	696	58 50
	Jarecki Mfg. Co.....	Supplies	697	5 44
	Masury, Young & Co.....	Oil	698	94 20
	Jam & McCrea & Co.....	Gaskets, etc.	699	1 34
	The Kuy Scheerer Co.....	Sundries	700	26 85
	W. G. Nagel Electric Co...	Supplies	701	438 83
	Oneida Steel Pulley Co....	Pulleys	702	4 44
	The Silwell Bierce & Smith Vaile Co.	Water cylinder head.	703	1 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Oct. 4	Standard Underground Cable Co.	Cable	704	7 50
	M. A. Seed Dry Plate Co.	Plates	705	91
	Walworth Mfg. Co.	Supplies	706	170 64
	Wheeler Condenser and Engineering Co.	Tubes, etc.	707	12 60
	Whitall Tatum Co.	Supplies	708	113 97
6	Auditor of State of Ohio	Rents and profits of Page Will lands....	709	5,443 43
	F. E. Beutler	Labor	710	4 00
	A. A. Bolenbaugh	"	711	18 00
	S. L. Burgess	"	712	1 27
	Quincy Cather	"	713	21 00
	E. L. Clements	"	714	28 80
	H. D. Cranston	"	715	6 25
	H. D. Cranston	"	716	26 50
	W. O. Dean	"	717	26 50
	Effie Duncan	"	718	5 20
	Grace Eagleson	"	719	3 25
	Chas. S. Fisher	"	720	3 50
	Ida M. Fisher	"	721	24 00
	Mellie W. Glass	"	722	3 20
	Ellsworth Gough	"	723	14 40
	F. G. Green	"	724	56 00
	W. D. Griffith	"	725	57 00
	John M. Harsh	"	726	1 80
	A. L. Harrington	"	727	21 87
	S. C. Hartman	"	728	97
	Lilian Huffman	"	729	22 25
	W. A. Kellerman	Typewriter	730	35 00
	W. A. Kellerman	Sundries	731	6 04
	M. A. Knight	Labor	732	3 27
	Nathar Lee	"	733	9 00
	Wm. McPherson	Expenses, Dayton ..	734	8 70
	Clara G. Mack	Labor	735	4 75
	Frances K. Mitzenburg	"	736	8 70
	Thos. R. Montgomery	"	737	5 00
	R. M. Moore	"	738	5 77
	A. E. Moore	"	739	75
	A. E. Miron	"	740	28 27
	G. P. Nash	"	741	1 50
	Marion Peck	"	742	4 50
	Helen Powell	"	743	8 50
	Roy Pratt	"	744	42 27
	Evelyn Rodocker	"	745	36 75
	Jas. G. Sanders	"	746	8 15
	Edith Seymour	"	747	3 20
	E. F. Shade	"	748	3 25
	A. H. Smythe	Pencils, etc.	749	4 20
	J. A. Stiver	Labor	750	15 15
	H. E. Surface	"	751	3 00
	Lucy M. Taylor	"	752	5 20
	Geo. Washburn	"	753	15 08
	Antonie Ribot	Sept. salary.....	754	32 63
8	Lester Postle	Carpenter work	755	65 05
	William Eskew	"	756	64 68
	Nelson Beaver	"	757	65 62
	J. H. Randall	"	758	52 50

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
Oct. 11	John A. Schneider.....	Carpenter work.....	759	65 62
11	Columbus Club	Restaurant	760	10 80
	Cherington Prtg. and Engr. Co.	Session slips	761	6 50
	The H. Cole Co.	Supplies	762	13 50
	Columbus Bank Note Co....	2,000 letters	763	12 00
	Capital City Machine Wks..	Rolled steel	764	1 87
	Geo. D. Cross Lumber Co..	Lumber	765	2 90
	Columbus Bolt Works.....	Supplies	766	8 47
	Columbus Brass Co.	Bowl, etc.	767	6 80
	Columbus Mdse. Co.	Supplies	768	17 73
	Columbus Mill and Mine Supply Co.	"	769	69 61
	Cols. Steam Pump Works Co.	"	770	5 60
	Columbus Supply Co.	"	771	30 25
	Columbus Sewer Pipe Co..	Sand	773	1 75
	E. Doddington & Co.	Estimate	773	52 00
	Eldridge & Higgins Co.	Sugar	774	5 25
	Electric Supply Co.	Carbons, floor boxes.	775	22 00
	Elliott & Harris.....	Supplies	776	77 88
	Engineers' and Plumbers' Supply Co.	"	777	93 47
	Central Ohio Oil Co.	Oil	778	6 36
	Bucher Engraving and Mfg. Co.	Supplies	779	19 70
	Champlin Printing Co.	Printing	780	230 25
	H. Braun Sons & Co.	Supplies	781	35 97
	Fred'k W. Freeman.....	Groceries	782	3 10
	Green Joyce & Co.	Towels	783	52 50
	Griswold-Sohl Co.	Supplies	784	22 90
	Hann & Adair.....	News slips	785	1 76
	H. K. Hill.....	Groceries	786	6 12
	F. G. & A. Howald.....	Desk, chair, and tables	787	32 50
	Huffman-Conklin Co.	Repairs	788	3 92
	Jeffrey Mfg. Co.	Steel tapes	789	22 75
	Blackwood Green & Co..	Repairs	790	200 06
	Kauffman Lattimer Co.	Supplies	791	57 26
	W. L. Lilie & Co.	Mdse.	792	2 60
	New Franklin Prtg. Co..	Printing	793	78 45
	Fifth Ave. Floral Co.	Wreath	794	5 00
	Berlin Printing Co.	Printing	795	46 09
	Erner-Hopkins Co.	Supplies	796	23 04
	Thomas Ross	Soda ash	797	25 16
	James Penn	Wheat	798	1 20
	Chas. J. Palmer.....	Supplies	799	84 26
	Ohio State Journal.....	Printing	800	9 60
	O'Kane-Jull Co.	Supplies	801	7 90
	Nitschke Bros.	"	802	44 32
	Murray City Coal Co.	Coal	803	14 84
	McMaster & Fletcher.....	Sundries	804	2 18
	McClelland & Co.	"	805	2 00
	Onyx Paint Co.	Paint	806	10 75
	Oliver Typewriter Co.	Bal. on machine...	807	40 00
	Wm. M. Taylor Mantle and Grate Co.	Labor, etc.	808	6 60
	Taylor, Williams Co.	Coal	809	7 32

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Oct. 11	Weinman Machine Co.....	Valves	810	2 00
	Williams-Adair Mdse. Co....	Jars	811	1 76
	J. M. & W. Westwater.....	Sundries	812	12 46
	Standard Oil Co.....	Oil	813	12 10
	E. H. Self & Co.....	Mimeograph	814	16 00
	Standish Machine and Sup- ply Co.	Supplies	815	22 19
	Standard Chain Co.....	"	816	35 58
	Orr, Brown & Price.....	"	817	113 12
	Spahr & Glenn.....	Receipts	818	7 50
	Scioto Lime and Stone Co..	Lime	819	15 00
	Ruggles-Gale Co.....	Vouchers, etc.	820	30 00
	Tallmadge Hdwe. Co.....	Supplies	821	15 10
	A. L. Yardley.....	Screens	822	49 00
	Crucible Steel Co. of Am- erica	Steel	823	78 82
	Wm. B. Dana Co.....	Sub. to Com. and Fin. Chronicle.....	824	10 00
	Dodge, Haley & Co.....	Supplies	825	17 46
	Eimer & Amend.....	Sundries	826	90 06
	Enquirer Co.....	Adv.	827	9 17
	International Textbook Co..	Sub. 1 yr. to Mines and Minerals	828	2 00
	Journal of Com. and Com. Bulletin	1 yr. sub.....	829	12 00
	Engineering and Mining Journal	Adv.	830	8 29
	Toledo Newspaper Co.....	Adv.	831	9 00
	Henry Tremner	Supplies	832	12 72
	Arthur H. Thomas Co.....	Supplies	833	619 58
	Smithsonian Institution	Books	834	15 90
	E. H. Sargent & Co.....	Supplies	835	466 55
	Chicago Lab. Supply and Scale Co.	Supplies	836	26 90
	Remington Mfg. Co.....	Mdse.	837	27 00
	Nat'l Stockman and Farmer.	Adv.	838	13 44
	Nicholson File Co.....	Files	839	3 49
	Murphy Iron Works.....	Grates	840	115 00
	Library Bureau	Cards, desk	841	30 50
	Leavitt Machine Co.....	Pumpatt., 2 cutters..	842	19 00
	E. H. Kellogg & Co.....	Oil	843	46 80
	Knauth, Nachod & Kuhne..	Books, % O. Hanas- sowitz	844	3 68
	Leader Printing Co.....	Adv.	845	8 20
	Champaign Co. Abstract Co.	Service	846	58 00
	Jones & Laughlin Steel Co..	Steel	847	19 57
	Amer. Journal of Physiol- ogy	Vol. 411	848	5 00
	Amer. Shire and Horse Assn.	Vols. 1 to 4.....	849	4 00
	J. Bishop & Co.....	Mdse.	850	17 70
	Burris Damascus Tool Wks.	Sundries	851	6 66
	Burrow Bros. Co.....	Book	852	1 50
	Thos. Buchanan & Co.....	Mdse.	853	7 05
	Bausch & Lomb Optical Co..	Mdse.	854	1,409 95
	Commercial Tribune Co.....	Adv.	855	9 75
	G. Cramer Dry Plate Co....	Mdse.	856	91 67
	Chicago Lab. Supply and Scale Co.	Pill tiles	857	4 80

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
Oct. 11	Cleveland Twist Drill Co...	Mdse.	858	37 55
	H. Baker & Co.....	Mdse.	859	4 40
	W. C. Heller & Co.....	Steel boxes	860	9 81
	University of Chicago Press.	1 yr. sub. to Amer. Journal of Soc.	861	2 00
	Whitney Mfg. Co.....	Wheel	862	8 00
	The H. W. Wilson Co.....	Sub. to book index..	863	3 00
	Westinghouse El. and Mfg. Co.	Brushes	864	3 60
	R. P. Winkler.....	Binding	865	134 90
	Webb Stationery and Prtg. Co.	Mdse.	866	15 15
	Oswald Zistel	Hauling	867	10 00
12	D. W. McGrath.....	Est. No. 6. Phys. Bldg.	868	8,339 83
	E. C. Sargent.....	Labor	869	6 00
	Gus. Schram	"	870	2 76
	J. Fenlon	"	871	2 84
	J. Sincox	"	872	3 67
	Will Yost	"	873	3 00
14	A. Latham	"	874	1 50
	Bert Faught	"	875	1 67
	U. H. Williams.....	"	876	3 67
	O. Philo	"	877	6 50
	J. B. Chase.....	"	878	5 75
	P. Mouce	"	879	5 83
	C. Bernhard	"	880	5 83
	E. Harrison	"	881	5 83
	W. Mason	"	882	5 83
	J. W. Arthur.....	"	883	7 34
	John Pratt	"	884	7 17
	J. Broomall	"	885	7 17
	D. Brockman	"	886	4 16
	Chas. Cronch	"	887	7 17
	Chas. White	"	888	7 34
	Matt Goetten	"	889	7 67
15	Harvard Law Review Assn..	Adv.	890	5 00
	Cent. Union Telephone Co..	Rentals, tolls	891	11 40
17	Columbus Citizens Tel. Co..	Phone service Oct 1 to Dec. 31.....	892	179 70
19	Olive Jones	Oct. salary.....	893	145 00
24	W. O. Thompson.....	"	894	416 67
21	C. E. Steeb.....	"	895	125 00
28	K. H. Duncan.....	"	896	75 00
	E. D. Cockins.....	"	897	75 00
	Bess C. Watters.....	"	898	60 00
	Minnie Hines	"	899	40 00
21	W. E. Mann.....	"	900	83 33
28	W. C. McCracken.....	"	901	150 00
	Wm. Standley	"	902	65 00
	W. H. Case	"	903	55 00
	Thos. Boude	"	904	50 00
	Beni. Le Bay	"	905	55 00
	Sherman Wolfe	"	906	50 00
	Samuel Lowery	"	907	50 00
	Roy Pratt	"	908	50 00
	Marion Peck	"	909	45 00
	Geo. Rose	"	910	75 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Oct. 28	Harry Osborne	Oct. salary	911	25 00
	Chas. Lewis	"	912	20 00
	Norman Slee	"	913	20 00
	Chas. Hicks	"	914	45 00
	Jos. Black	"	915	25 00
	G. A. Goodspeed	"	916	40 00
	W. M. Stahl	"	917	40 00
	W. R. Thomas	"	918	40 00
	R. Brandon	"	919	40 00
	Wm. Whitestein	"	920	40 00
	H. Chantler	"	921	40 00
	Wash Townsel	"	922	20 00
	F. Andrix	"	923	30 00
	G. C. Denny	"	924	40 00
	M. N. Cook	"	925	40 00
	A. Rudell	"	926	40 00
	W. E. Cook	"	927	40 00
	J. W. Brown	"	928	40 00
	John Brown	"	929	25 00
	H. M. Templin	"	930	40 00
	H. H. Hamilton	"	931	12 50
	W. F. Martin	"	932	20 00
	A. B. Probert	"	933	45 00
	John Ricketts	"	934	45 00
	Jas. Kelley	"	935	30 00
	M. S. Harvey	"	936	25 00
	C. H. Woodruff	"	937	70 00
	J. P. Covan	"	938	83 33
	A. F. Hall	"	939	73 33
	H. C. Price	"	940	225 00
	J. W. Decker	"	941	170 00
	C. S. Plumb	"	942	200 00
	A. G. McCall	"	943	140 00
	H. S. Arkell	"	944	75 00
	Alex Argo	"	945	60 00
	E. F. Mangold	"	946	60 00
	Laurel Hill	"	947	40 00
	E. S. Guthrie	"	948	20 00
	J. Chisholm	"	949	60 00
	H. A. Weber	"	950	225 00
	A. Vivian	"	951	150 00
	Rudolph Hirsch	"	952	60 00
	G. W. Knight	"	953	250 00
	A. H. Tuttle	"	954	140 00
	H. R. Spencer	"	955	110 00
	A. M. Bleile	"	956	225 00
	M. Dresbach	"	957	80 00
	R. J. Seymour	"	958	30 00
	J. A. Beer	"	959	30 00
	Wm. C. Mills	"	960	40 00
	Pearl Coutellier	"	961	10 00
	J. N. Bradford	"	962	210 00
	T. E. French	"	963	150 00
	T. K. Lewis	"	964	120 00
	S. Martin	"	965	100 00
	J. H. Vosskuehler	"	966	120 00
	J. S. Tidball	"	967	80 00
	S. B. Williams	"	968	30 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Oct. 28	H. C. Lord.....	Oct. salary.....	969	225 00
	B. F. Maag.....	".....	970	100 00
	C. B. Morrey.....	".....	971	160 00
	W. A. Kellerman.....	".....	972	225 00
	J. H. Schaffner.....	".....	973	130 00
	H. H. York.....	".....	974	50 00
	H. A. Gleason.....	".....	975	30 00
	Mary McKinley.....	".....	976	30 00
	Jas. McOwen.....	".....	977	40 00
	S. A. Norton.....	".....	978	125 00
	Wm. McPherson.....	".....	979	225 00
	W. E. Henderson.....	".....	980	160 00
	C. W. Foulk.....	".....	981	140 00
	H. R. Watkins.....	".....	982	60 00
	C. E. Andrews.....	".....	983	20 00
	C. G. Stewart.....	".....	984	60 00
	C. C. Vogt.....	".....	985	30 00
	J. M. Knote.....	".....	986	30 00
	C. E. Sherman.....	".....	987	180 00
	A. H. Keller.....	".....	988	180 00
	Frank Eno.....	".....	989	150 00
	H. D. Brining.....	".....	990	125 00
	C. A. Melick.....	".....	991	60 00
	Edw. Orton, Jr.....	".....	992	260 00
	A. V. Bleining.....	".....	993	100 00
	R. C. Purdy.....	".....	994	50 00
	Metta Seymour.....	".....	995	10 00
	M. A. Stoner.....	".....	996	180 00
	May Secrest.....	".....	997	120 00
	Cora Elliott.....	".....	998	25 00
	J. E. Hagerty.....	".....	999	160 00
	M. B. Hammond.....	".....	1000	120 00
24	D. R. Major.....	".....	1001	160 00
25	W. W. Boyd.....	".....	1002	200 00
28	T. H. Haines.....	".....	1003	130 00
	E. C. Caldwell.....	".....	1004	190 00
	F. A. Fisk.....	".....	1005	110 00
	J. S. Riddle.....	".....	1006	30 00
24	J. V. Denney.....	".....	1007	250 00
28	A. C. Barrows.....	".....	1008	225 00
	J. R. Taylor.....	".....	1009	150 00
	W. L. Graves.....	".....	1010	130 00
	G. H. McKnight.....	".....	1011	130 00
	Mary Malloy.....	".....	1012	30 00
	Mina Weaver.....	".....	1013	30 00
	Gertrude Jackson.....	".....	1014	30 00
	W. H. Siebert.....	".....	1015	180 00
	E. H. McNeal.....	".....	1016	100 00
	C. S. Prosser.....	".....	1017	190 00
	J. A. Bownocker.....	".....	1018	160 00
	L. A. Rhoades.....	".....	1019	225 00
	G. B. Viles.....	".....	1020	120 00
	B. A. Eisenlohr.....	".....	1021	80 00
	J. R. Smith.....	".....	1022	225 00
	A. W. Hodgman.....	".....	1023	160 00
	W. S. Elden.....	".....	1024	160 00
	W. R. Lazenby.....	".....	1025	225 00
27	V. H. Davis.....	".....	1026	83 33

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Oct. 28	F. E. Sanborn.....	Oct. salary.....	1027	200 00
	W. A. Knight.....	".....	1028	120 00
	W. H. Rench.....	".....	1029	120 00
	C. P. Crowe.....	".....	1030	120 00
	All Case.....	".....	1031	60 00
	C. M. Beem.....	".....	1032	60 00
	S. C. Derby.....	".....	1033	225 00
	W. H. Page.....	".....	1034	200 00
	E. B. Kinkead.....	".....	1035	130 00
	J. A. Shauck.....	".....	1036	100 00
	E. O. Randall.....	".....	1037	80 00
	G. H. Stewart.....	".....	1038	50 00
	H. Schneider.....	".....	1039	40 00
	Harriet Townshend.....	".....	1040	60 00
	Gertrude Kellicott.....	".....	1041	80 00
	Maude Jeffrey.....	".....	1042	80 00
	M. Hartford.....	".....	1043	50 00
	Max Morton.....	".....	1044	30 00
	E. Smythe.....	".....	1045	40 00
	R. D. Bohannon.....	".....	1046	225 00
	G. W. McCoard.....	".....	1047	160 00
	J. E. Boyd.....	".....	1048	150 00
	C. L. Arnold.....	".....	1049	130 00
	K. D. Swartzel.....	".....	1050	150 00
	H. N. Kuhn.....	".....	1051	110 00
	S. E. Rasor.....	".....	1052	100 00
	E. F. Coddington.....	".....	1053	110 00
	W. F. Magruder.....	".....	1054	225 00
	E. A. Hitchcock.....	".....	1055	175 00
	H. Judd.....	".....	1056	120 00
	T. W. Holloway.....	".....	1057	60 00
	N. W. Lord.....	".....	1058	200 00
	D. J. Demorest.....	".....	1059	80 00
	Gustav Bruder.....	".....	1060	20 00
	E. A. Ray.....	".....	1061	200 00
	T. B. Simon.....	".....	1062	30 00
	G. B. Kauffman.....	".....	1063	200 00
	C. A. Dye.....	".....	1064	110 00
	W. H. Scott.....	".....	1065	225 00
	A. E. Davies.....	".....	1066	90 00
	D. C. Huddleson.....	".....	1067	100 00
	Maud W. Martin.....	".....	1068	80 00
	Lily Weeks.....	".....	1069	25 00
	B. F. Thomas.....	".....	1070	225 00
	A. D. Cole.....	".....	1071	200 00
	R. F. Earhart.....	".....	1072	120 00
	H. D. Ayers.....	".....	1073	80 00
	B. L. Bowen.....	".....	1074	225 00
	C. A. Bruce.....	".....	1075	150 00
	E. S. Ingraham.....	".....	1076	120 00
	D. S. White.....	".....	1077	200 00
	S. Sisson.....	".....	1078	170 00
	D. H. Udall.....	".....	1079	145 00
	O. V. Brumley.....	".....	1080	100 00
	J. McL. Phillips.....	".....	1081	100 00
	H. Osborne.....	".....	1082	225 00
	I. S. Hine.....	".....	1083	120 00
	F. L. Landacre.....	".....	1084	120 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
Oct. 28	J. G. Sanders.....	Oct. salary.....	1085	30 00
	F. M. Surface.....	".....	1086	25 00
	R. M. Royer.....	".....	1087	70 00
	L. W. Funk.....	".....	1088	60 00
	A. Ribot.....	".....	1089	32 63
	E. B. Dillon.....	".....	1090	50 00
	J. M. Butler.....	".....	1091	25 00
	G. W. Rightmire.....	".....	1092	50 00
	John Brown.....	".....	1093	15 00
	Chas. S. Underwood.....	McGill fastener	1094	1 75
20	Madden-Darrah Wall Paper Co.	Labor and material.....	1095	1,067 04
	Tiffany Studios.....	Labor, etc.....	1096	46 35
21	Jos. N. Bradford.....	Arch services.....	1097	113 00
	Columbus Gas Co.....	Gas.....	1098	138 53
	J. W. Arthur.....	Labor.....	1099	9 00
	Chas. White.....	".....	1100	9 00
July 29	Harry Osborne.....	July salary.....	1101	5 50
Oct. 24	Postal Telegraph-Cable Co.	Telegrams.....	1102	1 01
	Columbus Water Works....	Hyd. No. 2814, 6573, 16974	1103	1,576 54
	Ralph Rogers.....	Sept. and Oct. salary.....	1104	160 00
	G. E. Fellows, Treas.....	Annual fee.....	1105	10 00
27	H. C. Lord.....	Supplies.....	1106	2 27
31	J. McLain Smith.....	Expenses.....	1107	39 80
Nov. 1	W. J. Davidson.....	Supplies.....	1108	286 78
	R. M. Rownd, P. M.....	Stamps.....	1109	1 25
	A. Bolenbaugh.....	Labor.....	1110	17 70
	F. E. Bentler.....	".....	1111	11 63
	Raymond Brennon.....	".....	1112	8 20
	J. D. Brush.....	Boulders.....	1113	409 89
	Miss H. E. Burgess.....	Labor.....	1114	12 50
	Morris H. Churchman.....	".....	1115	23 10
	Marie Clark.....	".....	1116	11 00
	F. D. Cockins.....	".....	1117	17 80
	J. H. Cox.....	".....	1118	13 50
	H. D. Cranston.....	".....	1119	2 75
	Thos. C. Davis.....	".....	1120	13 40
	W. V. Deim.....	".....	1121	9 50
	John L. Downing.....	".....	1122	12 85
	C. S. Fisher.....	".....	1123	5 38
	Ida May Fisher.....	".....	1124	20 50
	Ellsworth Gough.....	".....	1125	49 60
	Mary F. Hitchcock.....	".....	1126	3 06
	Lillian Huffman.....	".....	1127	20 25
	Albie Smith.....	Oct. salary.....	1128	28 00
	H. Judd.....	Supplies, testing oil.....	1129	22 25
	Jas. F. Kewley.....	Labor.....	1130	13 46
	Wm. C. McCracken.....	Supplies.....	1131	163 38
	Clara G. Mack.....	Labor.....	1132	9 25
	E. L. Mahaffy.....	".....	1133	2 38
	Maude W. Martin.....	Supplies.....	1134	7 04
	O. F. Metz.....	Labor.....	1135	14 10
	H. C. Moist.....	".....	1136	2 20
	E. C. Nesbit.....	".....	1137	1 43
	Bell E. Norton.....	".....	1138	1 50
	Marion Peck.....	".....	1139	6 75
	J. McL. Phillips.....	Honing knives.....	1140	3 50

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Nov. 1	Edw. Orton, Jr.....	Money advanced to C. H. Griffin.....	1141	65 00
	Victor W. Purdy.....	Labor	1142	13 20
	F. A. Ray.....	Labor, etc	1143	23 15
	Wm. H. Redhead.....	Supplies	1144	60 00
	Geo. R. Rose.....	Labor	1145	18 00
	H. A. Seabright.....	"	1146	8 30
	May Secrest	Supplies	1147	4 91
	Edith Seymour	Labor	1148	6 30
	E. F. Shade.....	"	1149	8 88
	S. Sisson	Supplies	1150	4 98
	J. A. Stever.....	Labor	1151	12 75
	H. E. Surface	"	1152	13 40
	D. H. Udall.....	Scalpel	1153	50
	Headley & Shotwell.....	Rev. statutes	1154	11 00
	E. D. Waid.....	Labor	1155	17 20
	S. P. Ward.....	"	1156	15 75
	A. B. Welty.....	Labor student asst... ..	1157	13 40
	David S. White	One horse	1158	5 00
	Amer. District Tel. Co.....	July, Aug., Sept.	1159	96 00
	Artura Photo Paper Co.....	50 doz. 5 x 7 C. B. M.	1160	13 13
	Berlin Printing Co.....	3000 bulletins	1161	36 30
	The D. C. Beggs Co.....	Rug	1162	13 00
	Blackwood, Green & Co.....	Supplies	1163	9 45
	Bowden Towe Supply Co..	Per. slips	1164	18 39
	H. Braun Sons & Co.....	Mdse	1165	19 83
	Central Ohio Paper Co.....	Supplies	1166	13 63
	Champlin Printing Co.....	"	1167	109 40
	Cherington Pr. and Eng. Co.	Stamps	1168	2 85
	Citizens Ice Co.....	Ice	1169	11 23
	Citizens Pub. Co.....	Advertising	1170	12 40
	Cleveland Twist Drill Co..	Gauge	1171	3 48
	Coe & Spencer Lumber Co..	Lumber	1172	7 95
	The H. Cole Co.....	Tacks	1173	2 25
	Columbus Mdse. Co.....	Crayons	1174	70
	Columbus Photo Supply Co.	Supplies	1175	24 32
	Columbus Plate and Win- dow Glass Co.....	Glass	1176	3 25
	Columbus Saw Mill Co.....	Posts, etc	1177	91 72
	Columbus Sewer Pipe Co..	Tile pipe, etc.....	1178	11 59
	Columbus Supply Co.....	Supplies	1179	81 74
	Columbus Mill and Mine Supply Co.	Valves, etc	1180	8 76
	Geo. D. Cross Lumber Co..	Lumber	1181	51 46
	C. H. Davis.....	Repairs	1182	3 50
	Eaton Machine Works.....	"	1183	2 70
	Electric Supply Co.....	"	1184	15 32
	Engineers' and Plumbers' Supply Co.	Supplies	1185	12 75
	Erner-Hopkins Co.....	Staples	1186	1 75
	A. G. Geren.....	Blue prints	1187	2 00
	Hann & Adair.....	Supplies	1188	22 30
	P. Hayden Saddlery and Hardware Co.	Sand	1189	9 13
	Thos. Hayne.....	Hauling	1190	1 50
	H. K. Hill.....	Supplies	1191	14 90
	Kauffman-Lattimer Co.	Drugs	1192	34 99
	Kelton & Converse.....	Lumber	1193	65 32

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Nov. 1	Mary Horton King.....	Rent	1194	70 00
	Wm. N. King.....	"	1195	375 00
	Rufus King	Lease	1196	60 00
	Lehman & Dickson.....	Repairs	1197	50
	J. S. Maclean.....	Tables	1198	330 00
	McAllister, Mohler & Co.....	Furniture	1199	110 73
	W. D. Griffith.....	Labor	1200	20 00
	McDonald Bros.....	Supplies	1201	5 75
	H. Mithoff & Co.....	Grind stone	1202	3 00
	New Franklin Prtg. Co.....	Proposals	1203	7 00
	Nitschke Bros.....	Supplies	1204	29 77
	Orr, Brown & Price.....	"	1205	64 59
	J. Ohlen & Sons Saw Mfg. Co.....	Steel	1206	13 20
	Chas. J. Palmer.....	Cans	1207	12 00
	Jas. Pem.....	Hauling	1208	3 75
	Payne-McDonald Hdwe Co.....	Hardware	1209	18 56
	Pickering Hardware Co.....	"	1210	9 93
	Pure Milk Co.....	Slips	1211	2 00
	Renner & Elder.....	Implements	1212	67 27
	Rood Lumber Co.....	Shavings	1213	9 00
	Thos. Ross	Soda ash	1214	25 16
	Ruggles-Gale Co.....	Sundries	1215	35 35
	Schoedinger, Fearn & Co.....	Supplies	1216	2 25
	Schroth & Potter.....	"	1217	16 90
	R. M. Seward & Co.....	Brick, etc	1218	5 90
	Shilling Foundry Co.....	Castings	1219	6 88
	Scioto Lime and Stone Co.....	Lime	1220	15 00
	Smith Premier Typewriter Co.....	Repairs	1221	7 00
	W. O. Thompson.....	Lockers	1222	30 00
	C. Smith & Son.....	"	1223	80 00
	Spahr & Glenn.....	Supplies	1224	124 00
	Standard Oil Co.....	Oil	1225	3 90
	Tallmadge Hardware Co.....	Supplies	1226	25 24
	Standish Machine and Sup- ply Co.....	"	1227	9 79
	Taylor, Williams & Co.....	Coal	1228	4 04
	W. O. Thompson.....	Nitschke Bros., E. H. Sell & Co.....	1229	7 50
	Fred H. Tibbets.....	Letters, etc	1230	12 40
	T. T. Tress.....	Repairs	1231	75
	Vulcanite Paving and Con- crete Co.....	Cement work	1232	93 10
	P. F. Yoerger.....	2 signs	1233	4 50
	Adrianee, Platt & Co.....	Merchandise	1234	13 93
	Amer Electrochemical So- ciety	Val. and transactions	1235	2 00
	Baker & Adamson Chemical Co.....	Merchandise	1236	1 39
	Bausch & Lomb Optical Co.....	Carbons, refractome- ter	1237	79 86
	E. Braun	Brushes	1238	3 00
	D. H. Burrell & Co.....	Merchandise	1239	180 42
	Burrows Bros. Co.....	Supplies	1240	64 92
	Carter Wire Fence Machine Co.....	Wire	1241	58 90
	The Champaign Times.....	Advertising	1242	2 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
Nov. 1	Commercial Tribune Co....	Advertising.....	1243	7 90
	Eimer & Amend.....	Furnace	1244	17 50
	Chas. Engelhard	Pair tubes	1245	7 50
	Grange Bulletin Co.....	Adv. 8/28, 8/25.....	1246	5 60
	W. R. Harrison & Co.....	Pipe	1247	3 11
	Hobert Electric Mfg. Co....	Brush holders	1248	4 00
	Leslie H. Ingham, Treas....	Dues O. C. A.....	1249	5 00
	J. A. Keister.....	12 systems	1250	24 00
	The Laning Co.....	Advertising	1251	100 00
	Lawrence Pub. Co.....	"	1252	26 60
	Library Bureau	Guides	1253	3 13
	Live Stock Journal.....	Advertising	1254	10 00
	The Macmillan Co.....	Rhetoric	1255	2 92
	Mansfield Linseed Oil Co...	Oil meal	1256	56 00
	J. L. Mott Iron Works....	Nest of tubes.....	1257	48 56
	Murphy Iron Works.....	Merchandise	1258	11 25
15	R. M. Rownd, P. M.....	Stamps	1259	6 00
1	Natural Science Establish- ment	Minerals	1260	79 50
	Nernst Lamp Co.....	Merchandise	1261	22 10
	New York Botanical Garden.	"	1262	2 50
	North American Farmer Co.	Advertising	1263	2 00
	O. W. U. Y. M. C. A.....	Adv. in directory....	1264	5 00
	Plain Dealer Pub. Co.....	Advertising	1265	9 40
	Publishers' Weekly	Trade list an., sup. index	1266	5 00
	Richmond Chair Co.....	Chairs	1267	66 00
	Albert Sanveur	Merchandise	1268	31 66
	Smithsonian Institution	Books	1269	9 20
	G. E. Stechert	"	1270	53 72
	Syracuse Chilled Plow Co...	Merchandise	1271	65 25
	Arthur H. Thomas Co.....	Spoons	1272	2 21
	The Toledo Blade Co.....	Advertising	1273	9 40
	Henry Troemer	Set weights	1274	14 80
	Ward Bros.	Bal. of May 31.....	1275	2 00
	Wards Nat. Science Estab- shment	Mounting skeleton ..	1276	75 00
	Whitall Tatum Co.....	Tubing	1277	14 00
	Williams, Brown & Earle...	50 set dis. instru....	1278	40 00
	W. C. Wood.....	"True Ring"	1279	66 25
	Henry R. Worthington.....	Rings	1280	6 80
	C. H. Stroetting Co.....	Supplies	1281	457 36
	Chas. F. Payne.....	Labor	1282	15 00
4	E. R. Squibb & Son.....	Merchandise	1283	11 61
	D. R. Walker.....	Sept. and Oct. salary	1284	36 00
	G. R. Rose.....	Labor	1285	2 25
	O. Bird	"	1286	1 50
	W. R. Taylor.....	"	1287	3 75
	V. L. Stebleton.....	"	1288	3 75
	A. Brooks	"	1289	3 75
	John Harge	"	1290	3 75
	J. Hyers	"	1291	5 25
	C. Watts	"	1292	5 25
	J. Leonard.....	"	1293	1 50
	John Martin	"	1294	5 25
	John Pratt	"	1295	5 25
	Matt Goetten	"	1296	5 25
	J. W. Arthur.....	"	1297	9 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
Nov. 4	Chas. White	Labor.....	1298	10 00
	Thos. Walsh	"	1299	5 25
	J. E. Beal	Sept. and Oct. salary	1300	60 00
	O. V. Brumley.....	Bal. Oct. salary.....	1301	70 00
	R. O. Busey.....	Sept. and Oct. salary	1302	60 00
	Mary D. James.....	"	1303	60 00
	Rosalie James	"	1304	60 00
	All Case	Bal. Sept. and Oct. salary	1305	20 00
	C. H. Bushfield.....	Sept. and Oct. salary	1306	25 00
	Lucy M. Taylor.....	Oct. salary	1307	40 00
5	P. Sedgwick	Labor	1308	9 37
	Eli Bryson	"	1309	7 37
	Jos. Moore	"	1310	6 50
	A. Sawyer	"	1311	4 50
7	W. W. Boyd.....	Expenses	1312	107 55
8	E. L. Clements.....	Fuel and light.....	1313	23 40
	E. D. Gamertsfelder.....	Labor	1314	3 00
	T. Green	"	1315	60 02
	W. D. Griffith.....	"	1316	58 00
	T. F. Hamilton.....	"	1317	2 17
	S. C. Hartman.....	"	1318	75
	C. J. Koontz.....	"	1319	1 50
	E. S. Miller.....	"	1320	3 50
	C. F. Mindling.....	"	1321	1 20
	J. C. Miron.....	"	1322	29 17
	R. M. Moore.....	"	1323	1 50
	G. M. Potter.....	"	1324	82
	J. H. Randall.....	"	1325	47 25
	E. C. Rickey.....	"	1326	1 50
	G. W. Rose.....	"	1327	1 50
	John A. Schneider.....	"	1328	48 75
	H. R. Scott.....	"	1329	1 50
	S. H. Shewan.....	"	1330	75
	I. Stirner	"	1331	1 50
	R. H. Thomas.....	"	1332	4 60
11	Geo. R. Rose.....	Labor on tunnel to Mining bldg.	1333	152 72
14	Central Union Telephone Co.	Rentals	1334	16 85
	C. A. Melick.....	Salary to Nov. 10...	1335	20 00
	Alexis Cope	Commission	1336	136 93
15	A. Bryson	Labor	1337	3 25
	Jos. Moore	"	1338	3 25
	A. Sawyer	"	1339	3 25
	P. Sedgwick	"	1340	2 50
	P. Sedgwick	"	1341	3 25
	Geo. R. Rose.....	Labor on sewer to Mining bldg.	1342	225 19
18	R. M. Rownd, P. M.....	Stamps	1343	20 00
	Columbus P. O. Station A.	Postal cards	1344	5 00
	R. M. Rownd, P. M.....	Stamps	1345	43 00
19	John H. Hina.....	Est. No. 1, Min. bldg	1346	3,040 00
15	D. W. McGrath.....	Est. No. 7 and 7-a Physics bldg	1347	6,815 30
19	Laurel Hill	Nov. salary	1348	40 00
	Western Union Telegraph Co.	Telegrams	1349	4 05
	Jos. Moore	Labor	1350	10 39

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
Nov. 19	Alex Bryson	Labor	1351	10 39
	Jas. Bonnett	"	1352	6 22
	John Goodwin	"	1353	6 22
	A. Sawyer	"	1354	10 39
	C. E. Moore	"	1355	7 00
	Fred Lyday	"	1356	4 47
23	W. O. Thompson	Nov. salary	1357	416 67
	C. E. Steeb	"	1358	125 00
	K. H. Duncan	"	1359	75 00
	E. D. Cockins	"	1360	75 00
	Bess C. Watters	"	1361	60 00
	M. F. Hines	"	1362	40 00
	W. E. Mann	"	1363	83 33
	L. M. Taylor	"	1364	40 00
	W. C. McCracken	"	1365	150 00
	Wm. Standley	"	1366	65 00
	W. H. Case	"	1367	55 00
	Thos. Bonde	"	1368	50 00
	Benj. Le Bay	"	1369	55 00
	S. Wolfe	"	1370	50 00
	S. Lowery	"	1371	50 00
	Roy Pratt	"	1372	50 00
	M. Peck	"	1373	45 00
	Geo. Rose	"	1374	75 00
	H. Osborne	"	1375	25 00
	Chas. Lewis	"	1376	20 00
	N. Slee	"	1377	20 00
	Chas. Hicks	"	1378	45 00
	Jos. Black	"	1379	25 00
	G. A. Goodspeed	"	1380	40 00
	W. M. Stahl	"	1381	40 00
	W. R. Thomas	"	1382	40 00
	R. Brandon	"	1383	40 00
	Wm. Whitestein	"	1384	40 00
	H. Chantler	"	1385	40 00
	W. Townsel	"	1386	20 00
	F. Andrix	"	1387	30 00
	G. C. Denny	"	1388	40 00
	M. N. Cook	"	1389	40 00
	A. Ruddell	"	1390	40 00
	W. E. Cook	"	1391	40 00
	J. W. Brown	"	1392	40 00
	John Brown	"	1393	25 00
	H. M. Templin	"	1394	40 00
	H. H. Hamilton	"	1395	12 50
	C. H. Bushfield	"	1396	12 50
	D. R. Walker	"	1397	18 00
	W. F. Martin	"	1398	20 00
	A. B. Probert	"	1399	45 00
	John Ricketts	"	1400	45 00
	Jas. Kelley	"	1401	30 00
	M. S. Harvey	"	1402	25 00
	C. H. Woodruff	"	1403	70 00
	J. P. Coran	"	1404	83 33
	A. F. Hall	"	1405	73 33
	H. C. Price	"	1406	225 00
	J. W. Decker	"	1407	170 00
	C. S. Plumb	"	1408	200 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Nov. 23	A. G. McCall.....	Nov. salary.....	1409	140 00
	H. S. Arkell.....	".....	1410	75 00
	Alex Argo.....	".....	1411	60 00
	E. F. Mangold.....	".....	1412	60 00
	E. S. Guthrie.....	".....	1413	20 00
	John Chisholm.....	".....	1414	60 00
	H. A. Weber.....	".....	1415	225 00
	A. Vivian.....	".....	1416	150 00
	Rudolph Hirsch.....	".....	1417	60 00
	G. W. Knight.....	".....	1418	250 00
	A. H. Tuttle.....	".....	1419	140 00
	H. R. Spencer.....	".....	1420	110 00
	A. M. Bleile.....	".....	1421	225 00
	M. Dresbach.....	".....	1422	80 00
	R. J. Seymour.....	".....	1423	30 00
	J. A. Beer.....	".....	1424	30 00
	W. C. Mills.....	".....	1425	40 00
	Pearl Contellier.....	".....	1426	10 00
	J. N. Bradford.....	".....	1427	210 00
	T. E. French.....	".....	1428	150 00
	T. K. Lewis.....	".....	1429	120 00
	Silas Martin.....	".....	1430	100 00
	J. H. Vosskuehler.....	".....	1431	120 00
	J. S. Tidball.....	".....	1432	80 00
	S. B. Williams.....	".....	1433	30 00
	Ralph Rogers.....	".....	1434	80 00
	H. C. Lord.....	".....	1435	225 00
	B. F. Maag.....	".....	1436	100 00
	C. B. Morrey.....	".....	1437	160 00
	W. A. Kellerman.....	".....	1438	225 00
	J. H. Schaffner.....	".....	1439	130 00
	H. H. York.....	".....	1440	50 00
	H. A. Gleason.....	".....	1441	30 00
	Mary McKinley.....	".....	1442	30 00
	Jos. McOwen.....	".....	1443	40 00
	S. A. Norton.....	".....	1444	125 00
	Wm. McPherson.....	".....	1445	225 00
	W. E. Henderson.....	".....	1446	160 00
	C. W. Foulk.....	".....	1447	140 00
	H. R. Watkins.....	".....	1448	60 00
	C. E. Andrews.....	".....	1449	80 00
	C. G. Stewart.....	".....	1450	60 00
	C. C. Vogt.....	".....	1451	30 00
	J. M. Knot.....	".....	1452	30 00
	C. E. Sherman.....	".....	1453	180 00
	A. H. Heller.....	".....	1454	180 00
	Frank Eno.....	".....	1455	150 00
	H. D. Bruning.....	".....	1456	125 00
	Edw. Orton, Jr.....	".....	1457	200 00
	A. V. Bleininger.....	".....	1458	100 00
	R. C. Purdy.....	".....	1459	50 00
	Metta Seymour.....	".....	1460	10 00
	M. A. Stoner.....	".....	1461	180 00
	May Secrest.....	".....	1462	120 00
	Cora Elliott.....	".....	1463	25 00
	J. E. Hagerty.....	".....	1464	160 00
	M. B. Hammond.....	".....	1465	120 00
	D. R. Major.....	".....	1466	160 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Nov. 23	W. W. Boyd.....	Nov. salary.....	1467	200 00
	T. H. Haines.....	".....	1468	130 00
	F. C. Caldwell.....	".....	1469	190 00
	F. A. Fish.....	".....	1470	110 00
	J. S. Riddle.....	".....	1471	30 00
	J. V. Denney.....	".....	1472	250 00
	A. C. Barrows.....	".....	1473	225 00
	J. R. Taylor.....	".....	1474	150 00
	W. L. Graves.....	".....	1475	130 00
	G. H. McKnight.....	".....	1476	130 00
	Mary Malloy.....	".....	1477	30 00
	Mina Weaver.....	".....	1478	30 00
	Gertrude Jackson.....	".....	1479	30 00
	W. H. Siebert.....	".....	1480	180 00
	E. H. McNeal.....	".....	1481	100 00
	C. S. Prosser.....	".....	1482	190 00
	J. A. Bownocker.....	".....	1483	160 00
	L. A. Rhoades.....	".....	1484	225 00
	G. B. Viles.....	".....	1485	120 00
	B. A. Eisenlohr.....	".....	1486	80 00
	J. R. Smith.....	".....	1487	225 00
	A. W. Hodgman.....	".....	1488	160 00
	W. S. Elden.....	".....	1489	160 00
	W. R. Lazenby.....	".....	1490	225 00
	V. H. Davis.....	".....	1491	83 33
	F. E. Sanborn.....	".....	1492	200 00
	W. A. Knight.....	".....	1493	120 00
	W. H. Rench.....	".....	1494	120 00
	C. P. Crowe.....	".....	1495	120 00
	All Case.....	".....	1496	70 00
	C. M. Beem.....	".....	1497	60 00
	S. C. Derby.....	".....	1498	225 00
	W. H. Page.....	".....	1499	200 00
	E. B. Kinkead.....	".....	1500	130 00
	J. A. Shauck.....	".....	1501	100 00
	E. O. Randall.....	".....	1502	80 00
	G. H. Stewart.....	".....	1503	50 00
	Harriet Schneider.....	".....	1504	40 00
	Olive Jones.....	".....	1505	145 00
	H. Townshend.....	".....	1506	60 00
	Gertrude Kellicott.....	".....	1507	80 00
	Maude Jeffrey.....	".....	1508	80 00
	M. Hartford.....	".....	1509	50 00
	Max Morton.....	".....	1510	30 00
	E. Smythe.....	".....	1511	40 00
	R. D. Pohnannon.....	".....	1512	225 00
	G. W. McCoard.....	".....	1513	160 00
	J. E. Boyd.....	".....	1514	150 00
	C. L. Arnold.....	".....	1515	130 00
	K. D. Swartzel.....	".....	1516	150 00
	H. W. Kuhn.....	".....	1517	110 00
	S. E. Rasor.....	".....	1518	100 00
	E. F. Coddington.....	".....	1519	110 00
	W. T. Magruder.....	".....	1520	225 00
	E. A. Hitchcock.....	".....	1521	175 00
	H. Judd.....	".....	1522	120 00
	T. W. Holloway.....	".....	1523	60 00
	N. W. Lord.....	".....	1524	200 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
Nov. 23	D. J. Demorest.....	Nov. salary.....	1525	80 00
	Gustav Bruder.....	".....	1526	20 00
	F. A. Ray.....	".....	1527	200 00
	T. B. Simon.....	".....	1528	30 00
	G. B. Kauffman.....	".....	1529	200 00
	C. A. Dye.....	".....	1530	110 00
	W. H. Scott.....	".....	1531	225 00
	A. E. Davies.....	".....	1532	90 00
	D. C. Huddleson.....	".....	1533	100 00
	Maud W. Martin.....	".....	1534	80 00
	F. G. Patterson.....	Sept., Oct. and Nov. salary.....	1535	22 50
	Lily Weeks.....	Nov. salary.....	1536	27 00
	B. F. Thomas.....	".....	1537	225 00
	A. D. Cole.....	".....	1538	200 00
	R. F. Earhart.....	".....	1539	120 00
	H. D. Ayres.....	".....	1540	80 00
	B. L. Bowen.....	".....	1541	225 00
	C. A. Bruce.....	".....	1542	150 00
	E. S. Ingraham.....	".....	1543	120 00
	Mary James.....	".....	1544	30 00
	Rosalie James.....	".....	1545	30 00
	D. S. White.....	".....	1546	200 00
	S. Sisson.....	".....	1547	170 00
	D. H. Udall.....	".....	1548	145 00
	O. V. Brumley.....	".....	1549	170 00
	J. McI. Phillips.....	".....	1550	100 00
	C. F. Payne.....	".....	1551	15 00
	H. Osborne.....	".....	1552	225 00
	J. S. Hine.....	".....	1553	120 00
	F. L. Landacre.....	".....	1554	120 00
	J. G. Sanders.....	".....	1555	30 00
	F. M. Surface.....	".....	1556	25 00
	R. M. Royer.....	".....	1557	70 00
	L. W. Funk.....	".....	1558	60 00
	A. Ribot.....	".....	1559	32 63
	E. B. Dillon.....	".....	1560	50 00
	J. M. Butler.....	".....	1561	25 00
	G. W. Rightmire.....	".....	1562	50 00
	J. E. Beal.....	".....	1563	30 00
	R. O. Busey.....	".....	1564	30 00
	Alice Smith.....	".....	1565	28 00
	John Brown.....	".....	1566	15 00
21	Chas. Snapp.....	".....	1567	5 00
	R. M. Royer.....	Refund on S.R. cards.	1568	8 93
25	Geo. R. Rose.....	Mines Bldg., sewer and tunnel.....	1569	113 25
26	Jas. Barnet.....	Labor on road.....	1570	11 47
	Alex Bryson.....	".....	1571	11 47
	John Goodman.....	".....	1572	11 47
	Fred Lyday.....	".....	1573	7 00
	C. E. Moore.....	".....	1574	11 47
	Jas. Moore.....	".....	1575	11 47
	J. Richards.....	Labor.....	1576	1 75
	Albert Sawyers.....	Labor on road.....	1577	11 47
	J. W. Parkinson.....	Refund S. R. card.....	1578	3 00
29	Carl M. Baldwin.....	Refund fees.....	1579	1 00
	Jane Batterson.....	".....	1580	7 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904				
Nov. 29	Blake C. Cook.....	Refund fees	1581	4 00
	D. G. Hatmaker.....	" "	1582	6 00
	H. J. Holcombe.....	" "	1583	6 00
	Geo. Mahanna	" "	1584	6 00
	E. F. McKee.....	" "	1585	30 00
	J. A. Reasoner.....	" "	1586	30 00
	W. A. Wasson.....	" "	1587	6 00
	W. E. Whipp.....	" "	1588	30 00
	H. D. Wolf.....	" "	1589	5 00
Dec. 1	Hayden-Clinton Nat. Bank..	Int. refund on bonds.	1590	18,225 00
	Ohio National Bank.....	" "	1591	1,800 00
2	Geo. R. Rose.....	Labor, mine sewer and tunnel	1592	36 60
	Jas. Moore	Labor on road	1593	6 03
	Alex Bryson	" "	1594	8 75
	John Goodman	" "	1595	8 75
	R. Fincker	" "	1596	7 97
	A. Bryan	" "	1597	4 28
	A. Sawyers	" "	1598	5 25
	J. Barnett	" "	1599	78
	C. E. Moore.....	" "	1600	8 75
	H. E. Wood.....	" "	1601	3 50
5	Fred D. Marvin.....	Refund fees	1602	6 00
	Jas. Moore	Bal. on road	1603	2 72
8	C. S. Ault.....	Labor, campus	1604	25 20
	Fred Banner	Labor	1605	1 80
	F. E. Bentler.....	"	1606	20 50
	A. Bolenbaugh	"	1607	21 75
	W. W. Boyd.....	Expenses	1608	61 85
	B. T. Brooks.....	Labor	1609	4 50
	J. D. Brush.....	Boulders and exca- vating	1610	912 68
	Helen E. Burgess.....	Labor	1611	8 95
	L. E. Cole.....	"	1612	3 15
	Shreve Clark	"	1613	12 60
	Marie G. Clark.....	Pianist	1614	14 25
	E. L. Clemens.....	Labor	1615	48 00
	F. D. Cockins.....	"	1616	11 80
	H. W. Conrad.....	"	1617	2 55
	G. L. Cooley.....	Sundries	1618	7 25
	Thos. C. Davis.....	Labor	1619	10 45
	H. D. Cranston.....	Labor	1620	3 00
	John H. Cox.....	"	1621	10 50
	J. V. Denney.....	% Jas. Young.....	1622	10 00
	John L. Downing.....	Labor	1623	11 60
	M. Dresbach	Sundries	1624	12 17
	W. O. Dean.....	Labor	1625	18 25
	Chas. S. Fisher.....	"	1626	4 63
	C. A. Dye.....	Sundries	1627	2 71
	E. Gough	Labor	1628	48 00
	R. R. Garver.....	"	1629	4 27
	Ida M. Fisher.....	"	1630	28 25
	W. D. Griffith.....	"	1631	56 00
	F. Green	Labor, team	1632	88 37
	T. H. Hamilton.....	Labor	1633	3 52
	W. W. Hackney, Jr.....	"	1634	4 00
	A. F. Hall.....	Repairing	1635	20 00
	Jno. M. Harsh.....	Labor	1636	14 40

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Dec. 8	S. C. Hartman.....	Labor	1637	3 00
	Chas. M. Hicks.....	Nightwatch	1638	1 50
	C. Hobbs	Labor	1639	1 80
	Oscar Halts	"	1640	25 60
	Lillian Huffman	"	1641	25 50
	H. O. Jameson.....	"	1642	3 00
	O. M. Johnson.....	"	1643	2 92
	W. A. Kellerman.....	Sundries	1644	25 11
	Benj. Le Bay.....	Labor	1645	1 50
	W. R. Lazenby.....	Sundries	1646	2 55
	W. A. Knight.....	Sundries for Ceramics Dept.	1647	14 00
	Chester McClintock	Labor	1648	24 30
	C. H. Kerr	"	1649	16 45
	Jas. E. Kewley.....	"	1650	9 05
	H. N. Lucas.....	"	1651	2 85
	Robt. McKay	"	1652	3 50
	Wm. McPherson	Sundries	1653	5 46
	E. L. Mahaffy.....	Labor	1654	2 50
	W. E. Mann.....	Notary fees	1655	6 00
	Florence M. Metcalf.....	Labor	1656	8 40
	Clara G. Mark.....	"	1657	9 62
	Maude W. Martin.....	Supplies	1658	1 05
	A. R. Moist (steward).....	Board	1659	51 87
	J. C. Miron.....	Labor	1660	35 85
	F. L. Monahan.....	"	1661	1 50
	C. E. Moore.....	"	1662	6 52
	F. A. Moore.....	"	1663	15 08
	G. B. Nash.....	"	1664	67
	Fay Neil	"	1665	7 65
	F. C. Nesbitt.....	"	1666	75
	V. Phelps	"	1667	2 25
	C. S. Plumb.....	Expenses	1668	40 85
	J. H. Randall.....	Labor	1669	23 25
	E. M. Prather.....	"	1670	1 05
	G. M. Potter.....	"	1671	1 42
	Thos. Rataiczah	"	1672	10 58
	Chas. W. Reeder.....	"	1673	17 20
	Mrs. M. C. Reichard.....	Room rent for Cooley and Andrews..	1674	35 72
	E. C. Richey.....	Labor	1675	2 85
	H. W. Riley.....	"	1676	10 20
	E. F. Shade.....	"	1677	8 75
	H. Rodda	"	1678	1 80
	J. A. Stiver.....	"	1679	16 35
	I. Steiner	"	1680	2 92
	C. G. Salt.....	"	1681	4 50
	P. Schupp	"	1682	8 20
	H. A. Seabright.....	"	1683	6 90
	Wm. Sarzelere	"	1684	5 85
	John J. Schneider.....	"	1685	41 44
	L. M. Steckel.....	"	1686	1 20
	Edith A. Seymour.....	"	1687	5 00
	Mary Secrest	Supplies	1688	3 56
	F. L. Schoenberger.....	Labor	1689	4 31
	R. H. Thomas.....	"	1690	21 00
	H. E. Surface.....	"	1691	11 20

STATEMENT NO. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Dec. 8	W. O. Thompson.....	Expenses to Dayton, Cinti, Iowa.....	1692	89 13
	Wm. G. Van Meter.....	Labor	1693	16 20
	E. D. Waid.....	"	1694	15 00
	S. P. Ward.....	"	1695	12 60
	Geo. Washburn	"	1696	14 73
	A. B. Welty.....	"	1697	8 55
	H. G. Weinland.....	"	1698	4 00
	S. B. Williams, Jr.....	"	1699	3 83
	J. B. Nordholt.....	"	1700	1 80
	Wm. Whitestein	Nightwatch	1701	1 50
	H. E. Woods	Labor	1702	1 42
	Wm. R. Work.....	"	1703	11 25
	V. H. Davis.....	1,500 Ag. students....	1704	210 00
	Artura Photo Paper Co....	12 doz. plates.....	1705	2 25
	Blackwood, Green & Co....	Repairs	1706	9 58
	Bowden Towel Supply Co..	Towel service	1707	103 06
	R. M. Rownd, P. M.....	2,000 st. envelopes....	1708	42 80
	H. Braun Sons & Co.....	Supplies	1709	35 47
	John G. Brining.....	Repairing	1710	40 00
	Bucher Engr. and Mfg. Co..	Supplies	1711	13 04
	Jas. P. Carlisle.....	Plaster	1712	6 25
	Alfred Vivian	Expenses, Iowa	1713	43 15
	Marion Peck	Labor	1714	10 50
	F. A. Ray.....	% J. Nold	1715	9 00
	Central Ohio Oil Co.....	Oil	1716	35 47
	Champion Printing Co.....	Supplies	1717	113 00
	Cols. Heating and Ventilating Co.	Repairs	1718	32 40
	The H. Cole Co.....	Type paper	1719	6 50
	Columbus Gas Co.....	Coke	1720	21 35
	Columbus Bolt Works.....	Mdse.	1721	18 05
	Columbus Mill and Mine Supply Co.	Mdse.	1722	82 51
	Columbus Mdse. Co.....	Tags	1723	64
	Columbus Machine Co.....	Castings	1724	1 32
	Columbus Macadam Co.....	Stone	1725	6 30
	Columbus Iron and Steel Co.	Pig iron	1726	20 87
	Columbus Ice Cream Co....	Milk	1727	9 00
	Columbus Plate & Window Glass Co.	Glass	1728	27 20
	Columbus Photo Supply Co.	Mdse.	1729	29 70
	Columbus Brass Co.....	Bal. on tube.....	1730	3 50
	Geo. D. Cross Lumber Co..	Lumber	1731	4 68
	Columbus Steam Boiler and Heater Co.	Tubes	1732	29 80
	Columbus Supply Co.....	Supplies	1733	25 15
	Columbus Sewer Pipe Co..	"	1734	256 49
	Engelke & Bigelow.....	Freight and cartage..	1735	70 41
	Engelke & Bigelow.....	Freight and cartage..	1736	141 06
	Evans Printing Co.....	1,000 letter heads....	1737	4 85
	Erner-Hopkins Co.....	Mdse.	1738	71 34
	Engelke & Bigelow.....	Freight and cartage..	1739	55 39
	Frankenberg Bros.....	Files	1740	20 00
	Electric Sup. and Const. Co.	Mdse.	1741	9 60
	E. Doddington & Co.....	Lumber	1742	47 59
	Hamilton-Parker Co.	Mdse.	1743	8 60

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Dec. 8	W. J. Hamilton Coal Co...	Coal	1744	12 11
	A. G. Green.....	Blue prints	1745	5 00
	P. Hayden Saddlery and Hardware Co.....	Pig iron	1746	54 28
	Hanna Paint Mfg. Co.....	Lead, mdse.	1747	11 30
	Hann & Adair.....	Mdse. blanks	1748	26 75
	Hart & Crouse Co.....	Mdse.	1749	5 00
	H. K. Hill.....	Mdse.	1750	20 12
	Johnson Coal Mining Co...	Coal	1751	2,665 06
	Kauffman-Lattimer Co.	Mdse.	1752	79 92
	Kelton & Converse.....	Lumber	1753	101 88
	Lehman & Dickson.....	Repairs	1754	14 00
	Library Bureau	Files, guides	1755	249 15
	Livingston Seed Co.....	Wreath	1756	20 00
	McAllister, Mohler Co.....	Stools	1757	5 60
	McCoy & Stewart.....	Repairs	1758	9 40
	McDonald Bros.	Manholes	1759	18 75
	W. T. Magruder.....	Sundries	1760	4 16
	W. G. Mickle & Co.....	Frames	1761	3 30
	W. H. Miller Co.....	Belt	1762	12 16
	J. W. Meek & Co.....	Covering and rings..	1763	2 75
	McMaster & Fletcher.....	Wiring	1764	120 50
	Monypeny-Hammond Co.	Corn starch	1765	1 50
	Murray City Coal Co.....	Coal	1766	40 18
	New Franklin Prtg. Co.....	Cards, notices	1767	44 50
	Nitschke Bros.....	Mdse.	1768	24 60
	Orr, Brown & Price.....	Mdse.	1769	49 75
	Geo. H. Payels.....	Stand	1770	5 00
	O'Kane-Hull Co.....	4 chgs.	1771	1 40
	Payne-McDonald Hdwe. Co.	Hardware	1772	24 66
	Ruggles-Gale Co.....	Paper, envelopes	1773	3 85
	Rood Lumber Co.....	Sawdust	1774	5 00
	Ben D. Potts.....	Gate valves	1775	1 83
	The Phagocyte	½ page ad.....	1776	16 00
	Pure Milk Co.....	4 slips	1777	2 00
	Schoedinger, Fearn & Co...	Mdse.	1778	7 15
	E. H. Sell & Co.....	Mdse.	1779	7 15
	A. H. Smythe.....	Ink	1780	2 00
	R. M. Seward & Co.....	Clay	1781	4 00
	Seraphine Blank Book Co..	Binding, desk pads..	1782	88 25
	Standard Oil Co.....	Grease, oil and gaso- line	1783	29 27
	Standish Machine and Sup- ply Co.....	Mdse.	1784	11 52
	Spahr & Glenn.....	Supplies	1785	10 00
	Tallmadge Hdwe. Co.....	"	1786	44 05
	W. H. Palmer, Treas.....	Ad. in directory....	1787	5 00
	Williams Studio	Mdse.	1788	3 47
	Z. L. White & Co.....	Bunting	1789	5 99
	Western Kieley St. Sp. Co..	Steam trap	1790	50 00
	Weinman Machine Works..	Valves	1791	3 00
	Geo. M. Vaughn.....	Vent stack	1792	12 00
	Underwood Typewriter Co..	Ribbon	1793	1 00
	I. L. Trauger.....	Cards	1794	2 50
	Tracy-Wells Co.....	Mdse.	1795	72 83
	Fred H. Tibbetts.....	Letter heads	1796	3 25
	Taylor, Williams & Co.....	Coal	1797	9 56
	Helen Lambdin	Bal. Nov. salary....	1798	4 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Dec. 8	D. W. McGrath.....	Est. No. 8.....	1799	7,291 25
	Geo. R. Ross.....	Labor	1800	4 60
	J. W. Arthur.....	Labor	1801	9 92
	J. C. Smith, Treas.....	Vol. XX	1802	2 00
	Amer. Veterinary Review...	Advertising	1803	40 00
	The W. H. Anderson Co....	Books	1804	32 25
	The W. H. Anderson Co....	Books	1805	47 50
	Baker & Adamson Chem. Co.....	Acid	1806	5 00
	E. Bartholomew.....	1 copy Cent.....	1807	6 00
	Brooks Oil Co.....	Oil	1808	28 98
	D. H. Burrell & Co.....	Tablets	1809	3 20
	Brinley Bros.	Supplies	1810	18 15
	J. Bishop & Co.....	Mdse.	1811	12 12
	Bausch & Lomb Optical Co..	Supplies	1812	89 32
	Cent. Union Telephone Co..	Booths	1813	116 55
	John S. Bushnell.....	Cord	1814	5 75
	Burrows Bros. Co.....	Books	1815	24 60
	Charity Organization Society.	1 yr. sub., 1904-5....	1816	2 00
	The Champaign News.....	2 ads.	1817	1 65
	Central Electric Co.....	Mdse.	1818	179 13
	M. P. Street.....	Total estimate for Physics tunnel	1819	2,521 50
	Christy Fire Clay Co.....	Clay	1820	4 85
	Crosby Steam Gage and Valve Co.....	Mdse.	1821	7 50
	Donahue Hdwe. Co.....	Mdse.	1822	10 15
	Chas. S. Edgar.....	Clay	1823	2 00
	Eimer & Amend.....	Mdse.	1824	10 45
	Flint & Walling Mfg. Co....	Fig. 791, No. 4.....	1825	5 25
	The Gazette	Ad.	1826	6 80
	Henry J. Green.....	Mdse.	1827	6 00
	Knauth, Nacod & Kuhne....	Books	1828	2 08
	India Alkali Works.....	Mdse.	1829	36 72
	W. C. Heller & Co.....	Mdse.	1830	2 00
	The Kuy-Scheerer Co.....	Mdse.	1831	11 80
	Geo. F. Lasher.....	U. S. Postal Guide..	1832	2 50
	The Laning Co.....	Vol. 15-22-12 circuit.	1833	8 25
	F. C. Ludden.....	Neastyle	1834	35 00
	Library Bureau	Cards	1835	38 35
	The Macmillan Co.....	Hen House Prob....	1836	6 43
	Mansfield Linseed Oil Co..	Oil meal	1837	14 25
	Chas. A. Bennett.....	1 yr. sub. M. T. Mag.	1838	1 00
	McKesson & Robbins	Mdse.	1839	62 62
	Murphy Iron Works.....	Brick, mdse.	1840	183 28
	F. G. Norg.....	7 bacteria	1841	3 50
	The New York Times.....	1 yr. sub.....	1842	8 50
	L. V. Osten.....	1 gross pens	1843	7 50
	The Palmer Co.....	Education, 1 yr.....	1844	3 00
	Parker, Davis & Co.....	Mdse.	1845	5 13
	Richmond Chair Co.....	Chairs	1846	66 00
	E. H. Sargent & Co.....	Mdse.	1847	30 84
	Spencer Lens Co.....	Mdse.	1848	60 99
	Standard Underground Cable Co.....	Mdse. order No. 34,916	1849	409 90
	Scioto Lime and Stone Co..	Lime	1850	15 00
	G. E. Stechert.....	Mdse.	1851	247 75

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Dec. 8	L. S. Starrett Co.....	Rules	1852	4 43
	E. R. Squibb & Son.....	Lit. paper	1853	4 05
	M. P. Street.....	Repairs on boilers...	1854	146 20
	C. H. Stoelting Co.....	Mdse.	1855	1,070 79
	Arthur H. Thomas Co.....	Mdse.	1856	27 60
	E. Thompson Co.....	Am. & Eng. En. Law, Vol. 28.....	1857	6 00
	Whitall, Tatum Co.....	Mdse.	1858	80 26
	Westinghouse El. and Mfg. Co.	Mdse.	1859	682 22
	Western Electric Co.....	Coils	1860	16 20
	Webb Sta. and Prtg. Co...	Mdse.	1861	13 35
	A. J. Warren Brush Co....	Brushes	1862	3 75
	Wagner Glass Works.....	Thermo.	1863	1 29
	R. P. Winckler.....	Binding	1864	25 70
	H. R. Worthington.....	Pumps	1865	3 12
	May Secrest.....	Dec. salary	1866	120 00
	Mrs. C. W. Mesloh.....	Water meter	1867	8 50
	McCullom Mfg. Co.....	Vertical file	1868	3 00
	W. I. Carruthers.....	Est., boiler house...	1869	1,414 55
	W. I. Carruthers.....	Est. No. 1, dairy dept.	1870	542 45
	John H. Hina.....	Est. No. 2, Mine bldg.	1871	2,232 50
	Frank L. Packard.....	Fees, Est. No. 1 and 2, Mine bldg.	1872	131 81
	H. F. Staley.....	Sept., Oct. and Nov. salary	1873	60 00
	Peters, Burns & Pretzinger.	Fees, Physics bldg..	1874	1,000 00
	Peters, Burns & Pretzinger.	Fees, Chem. bldg..	1875	2,500 00
	Nichol & Carr.....	Est. al, Chem. bldg.	1876	152 48
	Nichol & Carr.....	Est. No. 1, Chem. bldg.	1877	2,327 50
12	John A. Schneider.....	Labor	1878	11 62
	J. H. Randall.....	"	1879	22 69
	Bausch & Lomb Optical Co.	Mdse.	1880	36 13
	Merritt & Co.....	80 lockers	1881	343 54
	Henry Troemner	Mdse.	1882	68 80
	D. H. Burrell & Co.....	2 testers	1883	63 00
	Star Milk Cooler Co.....	Mdse.	1884	571 83
	Fairbanks, Morse & Co....	2 pumps	1885	55 00
	Western Kieley Steam Spec. Co.	No. 1 trap	1886	12 50
13	Alexis Cope	Commissions	1887	187 50
	C. F. Mindling.....	Labor	1888	60
14	Central Union Tel. Co.....	Rentals	1889	14 50
	Western Union Tel. Co.....	Aug., Sept., Oct. and Nov. %.....	1890	7 40
	Columbus Gas Co.....	Oct. and Nov. gas..	1891	341 93
	Postal Telegraph-Cable Co..	Oct. %	1892	1 78
	Col. Citizens Telephone Co.	Changing phone	1893	5 21
15	W. O. Thompson.....	Dec. salary	1894	416 67
19	C. E. Steeb.....	"	1895	125 00
	K. H. Duncan.....	"	1896	75 00
	E. D. Cockins.....	"	1897	75 00
	Bess C. Watters.....	"	1898	60 00
	Minnie Hines	"	1899	40 00
	W. E. Mann.....	"	1900	83 33
	Lucy M. Taylor.....	"	1901	40 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Dec. 19	W. C. McCracken.....	Dec. salary	1902	150 00
	Alice Smith	"	1903	28 00
	W. H. Case.....	"	1904	55 00
	Thos. Boude.....	"	1905	50 00
	Benj. Le Bay.....	"	1906	55 00
	S. Wolfe	"	1907	50 00
	S. Lowery	"	1908	50 00
	Roy Pratt	"	1909	50 00
	M. Peck	"	1910	45 00
	Geo. Rose	"	1911	75 00
	H. Osborne	"	1912	25 00
	Chas. Lewis	"	1913	20 00
	R. H. Nesbitt.....	"	1914	20 00
	Chas. Hicks	"	1915	45 00
	Jos. Black	"	1916	25 00
	G. A. Goodspeed.....	"	1917	40 00
	W. M. Stahl.....	"	1918	40 00
	W. R. Thomas.....	"	1919	40 00
	R. Brandon	"	1920	40 00
	Wm. Whitestein	"	1921	40 00
	H. Chantler	"	1922	40 00
	W. Townsel	"	1923	20 00
	F. Andrix	"	1924	30 00
	G. C. Denny.....	"	1925	40 00
	M. N. Cook.....	"	1926	40 00
	A. Ruddell	"	1927	40 00
	W. E. Cook.....	"	1928	40 00
	J. W. Brown.....	"	1929	40 00
	John Brown	"	1930	25 00
	John Brown	"	1931	15 00
	H. M. Templin.....	"	1932	40 00
	H. H. Hamilton.....	"	1933	12 50
	C. H. Bushfield.....	"	1934	12 50
	D. R. Walker.....	"	1935	18 00
	W. F. Martin.....	"	1936	20 00
	A. B. Probert.....	"	1937	45 00
	John Ricketts	"	1938	45 00
	Jas. Kelley	"	1939	30 00
	M. S. Harvey.....	"	1940	25 00
	C. H. Woodruff.....	"	1941	70 00
	J. P. Covan.....	"	1942	83 33
	A. F. Hall.....	"	1943	73 33
	H. C. Price.....	"	1944	225 00
	J. W. Decker.....	"	1945	170 00
	C. S. Plumb.....	"	1946	200 00
	A. G. McCall.....	"	1947	140 00
16	H. S. Arkell.....	"	1948	75 00
19	Alex Argo	"	1949	60 00
	E. F. Mangold.....	"	1950	60 00
	E. S. Guthrie.....	"	1951	20 00
	John Chisholm	"	1952	60 00
	H. A. Weber.....	"	1953	225 00
	A. Vivian	"	1954	150 00
	R. Hirsch	"	1955	60 00
	G. W. Knight.....	"	1956	250 00
17	A. H. Tuttle.....	"	1957	140 00
19	H. R. Spencer.....	"	1958	110 00
	A. M. Bleile.....	"	1959	225 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Dec. 19	M. Dresbach	Dec. salary	1960	80 00
	R. J. Seymour	"	1961	30 00
	J. A. Beer	"	1962	30 00
	Wm. C. Mills	"	1963	40 00
	Pearl Coutellier	"	1964	10 00
	J. N. Bradford	"	1965	210 00
	T. E. French	"	1966	150 00
	T. K. Lewis	"	1967	120 00
	Silas Martin	"	1968	100 00
	J. H. Vosskuehler	"	1969	120 00
	J. S. Tidball	"	1970	80 00
	S. B. Williams	"	1971	30 00
	R. Rogers	"	1972	80 00
	H. C. Lord	"	1973	225 00
	B. F. Maag	"	1974	100 00
	C. B. Morrey	"	1975	160 00
	W. A. Kellerman	"	1976	225 00
	J. H. Schaffner	"	1977	130 00
	H. H. York	"	1978	50 00
	H. A. Gleason	"	1979	30 00
	Mary McKinley	"	1980	30 00
	Jas. McOwen	"	1981	40 00
	S. A. Norton	"	1982	125 00
	Wm. McPherson	"	1983	225 00
	W. E. Henderson	"	1984	160 00
	C. W. Foulk	"	1985	140 00
	H. R. Watkins	"	1986	60 00
	C. E. Andrews	"	1987	80 00
	C. G. Stewart	"	1988	60 00
	C. C. Vogt	"	1989	30 00
	J. M. Knote	"	1990	30 00
	C. E. Sherman	"	1991	180 00
	A. H. Heller	"	1992	180 00
	Frank Eno	"	1993	150 00
	H. D. Bruning	"	1994	125 00
	Ray S. Blinn	"	1995	75 00
	Edw. Orton, Jr.	"	1996	200 00
	A. V. Bleininger	"	1997	100 00
	R. C. Purdy	"	1998	50 00
	H. F. Staley	"	1999	20 00
	Mettie Seymour	"	2000	10 00
16	M. A. Stoner	"	2001	180 00
19	Cora Elliott	"	2002	25 00
	J. E. Hagerty	"	2003	160 00
	M. B. Hammond	"	2004	120 00
	D. R. Major	"	2005	160 00
	W. W. Boyd	"	2006	200 00
17	T. H. Haines	"	2007	130 00
19	F. C. Caldwell	"	2008	190 00
17	F. A. Fish	"	2009	110 00
19	J. S. Riddle	"	2010	30 00
	Helen Lambdin	"	2011	30 00
	J. V. Denney	"	2012	250 00
	A. C. Barrows	"	2013	225 00
	J. R. Taylor	"	2014	150 00
	W. L. Graves	"	2015	130 00
	G. H. McKnight	"	2016	130 00
	Mary Malloy	"	2017	30 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904. Dec. 19	Mina Weaver	Dec. salary	2018	30 00
	Gertrude Jackson	"	2019	30 00
	W. H. Siebert	"	2020	180 00
	E. H. McNeal	"	2021	100 00
	C. S. Prosser	"	2022	190 00
	J. A. Bownocker	"	2023	160 00
	L. A. Rhoades	"	2024	225 00
	Geo. B. Viles	"	2025	120 00
	B. A. Eisenlohr	"	2026	80 00
	J. R. Smith	"	2027	225 00
	A. W. Hodgman	"	2028	160 00
	W. S. Elden	"	2029	160 00
	W. R. Lazenby	"	2030	225 00
	V. H. Davis	"	2031	83 33
	F. E. Sanborn	"	2032	200 00
	W. A. Knight	"	2033	120 00
	W. H. Rench	"	2034	120 00
	C. P. Crowe	"	2035	120 00
	All. Case	"	2036	70 00
	C. M. Beem	"	2037	60 00
	S. C. Derby	"	2038	225 00
	W. H. Page	"	2039	200 00
	E. B. Kinkead	"	2040	130 00
	J. A. Shauck	"	2041	100 00
	E. O. Randall	"	2042	80 00
	G. H. Stewart	"	2043	50 00
	Harriet Schneider	"	2044	40 00
	Olive Jones	"	2045	145 00
	H. Townshend	"	2046	60 00
	Gertrude Kellicott	"	2047	80 00
	Maude Jeffrey	"	2048	80 00
	M. Hart ord	"	2049	50 00
	Max Morton	"	2050	30 00
	E. Smythe	"	2051	40 00
16	R. D. Bohannon	"	2052	225 00
17	G. W. McCoard	"	2053	160 00
19	J. E. Boyd	"	2054	150 00
	C. L. Arnold	"	2055	130 00
	K. D. Swartzel	"	2056	150 00
	H. W. Kuhn	"	2057	110 00
17	S. E. Rasor	"	2058	100 00
19	E. F. Coddington	"	2059	110 00
	W. T. Magruder	"	2060	225 00
	E. A. Hitchcock	"	2061	175 00
	H. Judd	"	2062	120 00
	T. W. Holloway	"	2063	60 00
	N. W. Lord	"	2064	200 00
	D. J. Demorest	"	2065	80 00
	G. Bruder	"	2066	20 00
	F. A. Ray	"	2067	200 00
	T. B. Simon	"	2068	30 00
	G. B. Kauffman	"	2069	200 00
	C. A. Dye	"	2070	110 00
	W. H. Scott	"	2071	225 00
	A. E. Davies	"	2072	90 00
	D. C. Huddleson	"	2073	100 00
	Maude W. Martin	"	2074	80 00
	F. G. Patterson	"	2075	7 50

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
Dec. 19	Lily Weeks	Dec. salary	2076	27 00
	B. F. Thomas	"	2077	225 00
	A. D. Cole	"	2078	200 00
	R. F. Earhart	"	2079	120 00
	H. D. Ayers	"	2080	80 00
	B. L. Bowen	"	2081	225 00
	C. A. Bruce	"	2082	150 00
	E. S. Ingraham	"	2083	120 00
	Mary James	"	2084	30 00
	Rosalie James	"	2085	30 00
	D. S. White	"	2086	200 00
	S. Sisson	"	2087	170 00
	D. H. Udall	"	2088	145 00
	O. V. Brumley	"	2089	170 00
	J. McI. Phillips	"	2090	100 00
	C. F. Pavne	"	2091	15 00
	H. Osborne	"	2092	225 00
	J. S. Hine	"	2093	120 00
	F. L. Landacre	"	2094	120 00
	J. G. Sanders	"	2095	30 00
	F. M. Surface	"	2096	25 00
	R. M. Royer	"	2097	70 00
	L. W. Funk	"	2098	60 00
	A. Ribot	"	2099	32 63
	E. B. Dillon	"	2100	50 00
	J. M. Butler	"	2101	25 00
	G. W. Rightmire	"	2102	50 00
	J. E. Beal	"	2103	30 00
	R. O. Busey	"	2104	30 00
16	Chas. S. Fisher	Labor	2105	1 63
	Jas. S. Hine	Ohio Naturalist	2106	50 00
	J. W. Arthur	Labor	2107	10 50
	Frank Kiesel	"	2108	9 00
	W. T. Merry	"	2109	7 50
	Oscar Mallar	"	2110	9 00
	G. W. Rose	"	2111	10 15
	R. M. Rownd, P. M.	Envelopes	2112	10 60
	H. P. Knisely	Labor	2113	2 63
	McCoy & Skinner	Tank. hangers	2114	7 50
17	Laurel Hill	Dec. salary	2115	40 00
	V. A. Dennis	Labor	2116	6 00
	Wm. W. Hackney	"	2117	5 00
	Herman Bolles	"	2118	2 40
	H. C. Lord	Data	2119	1 75
19	L. M. Fox	Labor	2120	7 50
	E. F. Shade	"	2121	5 63
	H. E. Surface	"	2122	10 40
	Thos. Beer	"	2123	4 00
	E. S. Miller	"	2124	5 25
20	J. E. Hyde	"	2125	19 80
	Jno. M. Harsh	"	2126	7 00
	Cora Elliott	"	2127	6 00
	Marie G. Clark	"	2128	6 00
21	Helen E. Burgess	"	2129	4 20
22	Guy W. Mallon	Expenses	2130	21 00
	Wade Ellis	Salary to Jan. 1, 1905	2131	320 00
	L. F. Kiesewetter, Treas.	Int. on \$30,000 Page Will Fund	2132	600 00

STATEMENT NO. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1904.				
Dec. 29	Jno. T. Mack.....	Expenses	2133	24 95
30	W. A. Kellerman.....	Jan., Feb. and March salaries	2134	675 00
31	C. E. Steeb, Secty.....	Term fees of H. F. Staly, N. B. M. A. Fund	2135	7 00
	C. B. Morrey.....	Supplies	2136	1 40
	J. W. Arthur.....	Labor	2137	8 25
1905.				
Jan. 2	Geo. R. Rose.....	"	2138	10 50
	R. M. Rownd, P. M.....	Stamps	2139	20 00
4	R. M. Rownd, P. M.....	Envelopes	2140	43 60
	C. R. Dilts.....	Vet. clinic	2141	30 00
6	A. B. Welty.....	Labor	2142	12 90
7	J. W. Arthur.....	"	2143	1 83
9	C. E. Bliven.....	Refund fee	2144	1 00
10	R. M. Rownd, P. M.....	Stamps	2145	2 00
	C. E. Steeb.....	Jan salary	2146	125 00
	R. M. Rownd, P. M.....	Stamps	2147	10 00
	R. E. Linville.....	Refund fees	2148	10 00
11	Ellsworth Gough.....	Labor	2149	49 60
	U. S. Telephone Co.....	Call	2150	1 00
14	C. Ashenhurst.....	Labor	2151	32 00
	C. S. Ault.....	"	2152	13 42
	M. Bartler.....	"	2153	60
	Gertrude H. Bellows.....	"	2154	6 37
	F. E. Bentler.....	"	2155	25 00
	A. Bolenbaugh.....	"	2156	9 90
	E. S. Bolton.....	"	2157	4 80
	W. W. Boyd.....	Expenses	2158	35 40
	Jos. N. Bradford.....	Books	2159	2 50
	J. D. Brush.....	Labor	2160	5 25
	F. C. Caldwell.....	Superintending wiring of Physics bldg.	2161	100 00
	F. C. Caldwell.....	Supplies	2162	14 83
	E. L. Clemens.....	Labor	2163	49 60
	F. D. Cockins.....	"	2164	4 70
	Harry Covan.....	"	2165	5 10
	F. A. Cradler.....	"	2166	43 22
	H. D. Cranston.....	"	2167	27 75
	J. V. Denney.....	Stenographer	2168	12 50
	J. L. Downing.....	Labor	2169	8 00
	Effie Duncan.....	"	2170	16 85
	H. E. Dyche.....	"	2171	9 90
	Grace Eagleson.....	"	2172	8 75
	F. H. Eno.....	Expenses	2173	2 60
	R. R. Garver.....	Labor	2174	14 47
	A. T. Grener.....	"	2175	17 90
	Mille Glass.....	"	2176	3 20
	W. D. Griffith.....	"	2177	51 70
	Chas. R. Hall.....	"	2178	1 25
	A. L. Harrington.....	"	2179	25 25
	F. I. Hauge.....	"	2180	21 40
	R. E. Hecker.....	"	2181	5 10
	H. H. Haberg.....	"	2182	6 00
	Oscar Holts.....	"	2183	44 80
	W. A. Kellerman.....	Supplies	2184	16 95
	Chas. H. Kerr.....	Labor	2185	4 20

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
Jan. 13	Margaret Knight	Labor	2186	4 00
	H. P. Knisely	"	2187	90
	H. W. Lucas	"	2188	9 98
13	A. R. Moist	Room rent, board.	2189	8 37
14	C. McClintock	Labor	2190	14 70
	B. F. Maag	Instruction	2191	4 00
	Wm. T. Magruder	Subscriptions	2192	6 00
	E. L. Mahaffy	Labor	2193	1 88
	Clara G. Mark	"	2194	12 75
	S. J. Mauchly	"	2195	3 23
	O. V. Maurer	"	2196	7 05
	H. J. Means	"	2197	1 25
	J. C. Miron	"	2198	30 52
	F. A. Moore	"	2199	15 98
	F. C. Nesbitt	"	2200	7 20
13	Central Union Telephone Co.	Ex. service	2201	38 50
14	Marion Peck	Labor	2202	9 45
	G. M. Potter	"	2203	1 25
	Helen Powell	"	2204	1 80
	H. C. Price	Expenses	2205	11 80
	J. H. Randall	Labor	2206	6 00
	A. W. Ray	"	2207	9 90
	F. A. Ray	Expenses	2208	31 18
	P. V. Schupp	Labor	2209	18 40
	John A. Schneider	"	2210	36 75
	F. L. Schoedinger	"	2211	1 63
	H. A. Seabright	"	2212	14 55
	Edith Seymour	"	2213	6 40
	C. E. Sherman	Supplies	2214	7 10
	W. L. Slate	Labor	2215	8 02
	C. F. Smith	"	2216	11 10
13	J. A. Stiver	"	2217	21 45
14	M. A. Stoner	Supplies	2218	5 00
	R. H. Thomas	Labor	2219	23 80
	W. O. Thompson	Expenses	2220	49 34
	W. O. Thompson	Sundries	2221	8 70
	W. D. Waite	Labor	2222	1 65
	K. B. Ward	"	2223	4 50
	Hilda Weber	"	2224	6 40
	W. R. Ward	"	2225	11 88
	S. Youngberg	"	2226	1 25
13	G. B. Foerster	Return fees	2227	8 50
	F. E. Mahla	"	2228	8 00
	J. R. Van Dyke	"	2229	8 00
16	Joseph L. Hills	Dues 1904-1905	2230	15 00
	D. Appleton & Co.	Latin dictionary	2231	1 60
	J. O. Schlatterbeck, Treas.	Dues A. C. of P. F.	2232	3 00
	The Babcock & Wilcox Co.	Tubes ex of Simpson	2233	138 00
	Bausch & Lomb Optical Co.	Supplies	2234	115 69
	Boston Book Co.	Indexes	2235	1 00
	Campbell Prtg. Press and Mfg. Co.	Lever springs	2236	90
	Central Union Telephone Co.	Poles and arms	2237	20 38
	Crosby Steam Gage and Valve Co.	Merchandise	2238	56 25
	Detroit Caviary	G. pigs and mice	2239	15 70
	Dist. of Columbia Paper Mfg. Co.	Dryer	2240	9 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
Jan. 16	Fimer & Amend.....	Merchandise	2241	7 55
	Engineering and Mining Journal	Advertising	2242	8 29
	W. D. Hoard Co.....	"	2243	25 00
	Knauth, Nachod & Kuhne..	Books	2244	5 06
	Kuy-Scheerer Co.....	Merchandise	2245	4 70
14	Ethel S. Dean.....	Sten. work	2246	13 50
	E. D. Waide.....	Labor	2247	10 00
16	Cols. Citizens Telephone Co.	Phone service 1st quarter 1905	2248	182 40
	Lawton & Co.....	Paper	2249	1 80
	Guy W. Mallon.....	Expenses	2250	10 00
	Murphy Iron Works.....	Supplies	2251	6 80
	Peabody Institute	Libr. cat	2252	65 50
	Pickering Hdwe. Co.....	Brads	2253	59
	Post-Glover Electric Co....	Balance	2254	2 86
	Shultz Belting Co.....	Merchandise	2255	40 39
	Scioto Lime and Stone Co..	Lime	2256	15 00
	Smithsonian Institute	Books No. 67.....	2257	8 50
	G. E. Stechert & Co.....	Book	2258	5 86
	Valvaline Oil Co.....	Oil	2259	39 00
	Weston Elec. Inst. Co.....	Repairing	2260	13 89
	John Wiley & Son.....	Merchandise	2261	1 50
	Marjorie Jones	Return fees	2262	7 00
17	Am. Dist. Telegraph Co....	Night watch service for Oct., Nov., Dec	2263	96 00
	American Pub. Co.....	Printing	2264	36 35
16	Chas. E. Bedwell.....	Insurance	2265	21 00
17	The D. C. Beggs Co.....	Rugs, merchandise..	2266	23 50
	Blackwood, Green & Co....	Reprs., iron, chipped glass	2267	11 57
	H. Braun Sons & Co.....	Merchandise	2268	54 52
	Beck & Orr.....	Merchandise, map... 6 half tones.....	2269	5 00
	Bucher Engr. and Mfg. Co..	Supplies	2270	8 55
	Buckeye Brass Foundry....	Bills per stubs.....	2271	21 86
	Bowden Towel Supply Co..	Merchandise	2272	34 24
	Jas. P. Carlile.....	Advertising	2273	12 10
	The Catholic Columbian....	Merchandise	2274	50 00
	Central Ohio Paper Co.....	Supplies	2275	35 26
	Champlin Prtg. Co.....	"	2276	58 10
	Cols. Mill and Mine Supply Co.....	Repairs	2277	130 58
	Cols. Heating and Vent. Co.	Merchandise	2278	1 30
	Cols. Pharmacal Co.....	Plates	2279	4 30
	Cols. Photo Supply Co.....	Case	2280	9 00
	Cols. Show Case Works....	Merchandise	2281	25 00
	Cols. Supply Co.....	"	2282	111 39
	Cols. Sewer Pipe Co.....	Lumber	2283	9 46
	Geo. D. Cross Lumber Co..	Insurance	2284	5 00
16	Bryson, Brubacher & Co....	Supplies	2285	41 60
	H. C. Lord.....	Feed	2286	5 25
17	W. J. Davidson.....	Hook bolts	2287	8 40
	Eaton Machine Works.....	"	2288	7 20
	Engineers' and Plumbers' Supply Co.....	Pipe	2289	366 67
	Erner-Hopkins Co.....	Merchandise	2290	112 21
	Evans Printing Co.....	Printing	2291	7 50

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STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Jan. 17	Griswold-Sohl Co.	Iron	2292	3 28
	Hamilton, Parker Co.	Coal	2293	7 50
	Hann & Adair.	Cards	2294	1 00
	H. K. Hill.	Merchandise	2295	16 41
	Jeffrey Mfg. Co.	"	2296	4 62
	Kauffman-Lattimer Co.	"	2297	56 27
	Kelton & Converse.	Lumber	2298	6 06
	W. L. Lillie & Co.	Merchandise	2299	9 75
	McClelland & Co.	"	2300	14 15
	McDonald Bros.	Merchandise	2301	28 78
	Monypenny-Hammond Co. ..	Matches	2302	2 75
	Murray City Coal Co.	4 loads coal.	2303	13 25
	New Franklin Prtg. Co.	Envelopes	2304	3 00
	Ohio Leather Co.	Leather	2305	2 00
	Nitschke Bros.	Merchandise	2306	74 85
	Onyx Paint Co.	Paint	2307	4 70
	O'Kane-Hull Co.	Merchandise	2308	18 73
16	Frank C. McElroy.	Insurance	2309	14 00
17	Payne-McDonald Hdwe. Co.	Merchandise	2310	13 17
	Orr, Dean & Barry Co.	Bronze	2311	1 25
	Orr, Brown & Price.	Merchandise	2312	38 79
	Jas. Penn.	Expense for office.	2313	14 33
	Postal Tel-Cable Co.	Telegram	2314	1 33
	Thomas Ros.	Soda ash	2315	27 57
	Ruggles-Gale Co.	Merchandise	2316	311 05
	Schoedinger, Fearn & Co.	"	2317	37 60
	Nichol & Carr.	Est. No. 2 Chemical bldg	2318	3,526 88
	Schroth & Potter.	Merchandise	2319	6 72
	E. H. Sell & Co.	"	2320	1 40
	Shilling Foundry Co.	"	2321	29 15
	Standard Oil Co.	Oil and can.	2322	1 20
	Standish Machine and Sup- ply Co.	Merchandise	2323	47 64
	Frank Sulphen.	Repairing, etc	2324	21 05
	Tallmadge Hdwe. Co.	Merchandise	2325	103 07
	C. E. Steeb, Secy.	Fees of H. F. Staley N. B. M. A.	2326	7 00
	W. I. Carruthers.	Est. No. 2 add. to Boiler House	2327	799 00
	W. I. Carruthers.	Est. No. 2 Dairy.	2328	969 00
	Columbus Gas Co.	Dec. gas	2329	188 10
	Western Union Tel Co.	Service	2330	3 05
20	Alexis Cope	Commissions	2331	69 80
	W. E. Mann.	Jan. salary	2332	83 33
21	Olive Jones	"	2333	145 00
23	John J. Mauk.	Funeral exp. of W. Townsel	2334	82 00
	Lauterbach & Eilber.	Insurance	2335	14 00
	Geo. W. Knight.	Jan. salary	2336	250 00
	J. W. Decker.	Cash advanced	2337	15 23
24	W. O. Thompson.	Jan. salary	2338	416 67
26	K. H. Duncan.	"	2339	75 00
27	E. D. Cockins.	"	2340	75 00
26	Bess C. Watters.	"	2341	60 00
27	Minnie F. Hines.	"	2342	40 00
	Lucy M. Taylor.	"	2343	40 00
26	W. C. McCracken.	"	2344	150 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	V _o . No.	Amount.
1905. Jan. 27	Wm. Standley	Jan. salary	2345	65 00
	W. H. Case	"	2346	55 00
	Thos. Bonde	"	2347	50 00
	Benj. Le Bay	"	2348	55 00
	Sherman Wolfe	"	2349	50 00
	Samue Lowery	"	2350	50 00
	Roy Pratt	"	2351	50 00
	Marion Peck	"	2352	45 00
	Geo. R. Rose	"	2353	75 00
	Harry Osborne	"	2354	25 00
	Chas. Lewis	"	2355	20 00
	Chas. Hicks	"	2356	45 00
	Jos. Black	"	2357	25 00
	G. A. Goodspeed	"	2358	40 00
	W. M. Stahl	"	2359	40 00
	W. R. Thomas	"	2360	40 00
	R. Brandon	"	2361	40 00
	Wm. Whitestein	"	2362	40 00
	H. Chantler	"	2363	40 00
	F. Andrix	"	2364	30 00
	G. C. Denny	"	2365	40 00
	M. N. Cook	"	2366	40 00
	A. Rudell	"	2367	40 00
	W. E. Cook	"	2368	40 00
	John W. Brown	"	2369	40 00
	John Brown	"	2370	25 00
	John Brown	"	2371	15 00
	H. M. Templin	"	2372	40 00
	H. H. Hamilton	"	2373	12 50
	C. H. Bushfield	"	2374	12 50
	D. R. Walker	"	2375	18 00
	W. F. Martin	"	2376	20 00
	A. B. Probert	"	2377	45 00
	John Ricketts	"	2378	45 00
	Jas. Kelley	"	2379	30 00
	M. S. Harvey	"	2380	25 00
	C. H. Woodruff	"	2381	70 00
	J. P. Covan	"	2382	83 33
	A. F. Hall	"	2383	73 33
	H. C. Price	"	2384	225 00
	J. W. Decker	"	2385	170 00
	C. S. Plumb	"	2386	200 00
	A. G. McCall	"	2387	140 00
	H. S. Arkell	"	2388	75 00
	Alex Argo	"	2389	60 00
	F. F. Mangold	"	2390	60 00
	Laurel Hill	"	2391	40 00
	John Chisholm	"	2392	60 00
	H. A. Weber	"	2393	225 00
	A. Vivian	"	2394	150 00
	R. Hirsch	"	2395	60 00
	A. H. Tuttle	"	2396	140 00
	H. R. Spencer	"	2397	110 00
	A. M. Bleile	"	2398	225 00
	M. Dresbach	"	2399	80 00
	R. J. Seymour	"	2400	30 00
	J. A. Beer	"	2401	30 00
	Wm. C. Mills	"	2402	40 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
Jan. 26	J. N. Bradford.....	Jan. salary	2403	210 00
27	T. E. French.....	"	2404	150 00
	T. K. Lewis.....	"	2405	120 00
	Silas Martin	"	2406	100 00
	J. H. Vosskuehler.....	"	2407	120 00
	J. S. Tidball.....	"	2408	80 00
	S. B. Williams.....	"	2409	30 00
	Ralph Rogers	"	2410	80 00
	H. C. Lord.....	"	2411	225 00
	B. F. Maag.....	"	2412	100 00
	C. B. Morrey.....	"	2413	160 00
	J. H. Schaffner.....	"	2414	130 00
	H. H. York.....	"	2415	50 00
	H. A. Gleason.....	"	2416	30 00
	Mary McKinley	"	2417	30 00
	Jas. McOwen	"	2418	40 00
25	S. A. Norton.....	"	2419	125 00
27	Wm. McPherson	"	2420	225 00
	W. E. Henderson.....	"	2421	160 00
	C. W. Foulk.....	"	2422	140 00
	H. R. Watkins.....	"	2423	60 00
	C. E. Andrews.....	"	2424	80 00
	C. G. Stewart.....	"	2425	60 00
	C. C. Vogt.....	"	2426	30 00
	J. M. Knoté.....	"	2427	30 00
	C. E. Sherman.....	"	2428	180 00
	A. H. Keller.....	"	2429	180 00
	Frank Eno	"	2430	150 00
	H. D. Bruning.....	"	2431	125 00
	Edw. Orton, Jr.....	"	2432	200 00
	A. V. Bleininger.....	"	2433	100 00
26	R. C. Purdy.....	"	2434	50 00
27	H. F. Staley.....	"	2435	20 00
	Metta Seymour	"	2436	10 00
	M. A. Stoner.....	"	2437	180 00
	May Secrest	"	2438	120 00
	Cora Elliott	"	2439	25 00
	J. E. Hagerty.....	"	2440	160 00
26	M. B. Hammond.....	"	2441	120 00
	D. R. Major.....	"	2442	160 00
	W. W. Boyd.....	"	2443	200 00
	T. H. Haines.....	"	2444	130 00
	F. C. Caldwell.....	"	2445	190 00
	J. S. Riddle.....	"	2446	30 00
	Helen Lambdin	"	2447	30 00
	J. V. Denney.....	"	2448	250 00
	A. C. Barrows.....	"	2449	225 00
	J. R. Taylor.....	"	2450	150 00
27	W. L. Graves.....	"	2451	130 00
	G. H. McKnight.....	"	2452	130 00
	Mary Malloy	"	2453	30 00
	Mina Weaver	"	2454	30 00
	Gertrude Jackson	"	2455	30 00
	W. H. Siebert.....	"	2456	180 00
	E. H. McNeal.....	"	2457	100 00
	C. S. Prosser.....	"	2458	190 00
	J. A. Bownocker.....	"	2459	160 00
	L. A. Rhoades.....	"	2460	225 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
Jan. 27	Geo. B. Viles.....	Jan. salary	2461	120 00
	B. A. Eisenlohr.....	"	2462	80 00
	J. R. Smith.....	"	2463	225 00
	A. W. Hodgman.....	"	2464	160 00
	W. S. Elden.....	"	2465	160 00
	W. R. Lazenby.....	"	2466	225 00
	V. H. Davis.....	"	2467	83 33
	F. E. Sanborn.....	"	2468	200 00
	W. A. Knight.....	"	2469	120 00
	W. H. Renck.....	"	2470	120 00
	C. P. Crowe.....	"	2471	120 00
	All Case	"	2472	70 00
	C. M. Beem.....	"	2473	60 00
	S. C. Derby.....	"	2474	225 00
	J. H. Outhwaite.....	"	2475	250 00
	W. H. Page.....	"	2476	200 00
	E. B. Kinkead.....	"	2477	130 00
	J. A. Shauck.....	"	2478	100 00
	E. O. Randall.....	"	2479	80 00
	G. H. Stewart.....	"	2480	50 00
	Harriet Schneider	"	2481	40 00
	Harriet Townshend	"	2482	60 00
	Gertrude Kellicott	"	2483	80 00
	Maud Jeffrey	"	2484	80 00
	Martha Hartford	"	2485	50 00
	Max D. Morton.....	"	2486	30 00
	Elizabeth Smythe	"	2487	40 00
	R. D. Bohannon.....	"	2488	225 00
	G. W. McCoard.....	"	2489	160 00
	J. E. Boyd.....	"	2490	150 00
	C. L. Arnold.....	"	2491	130 00
	K. D. Swartzel.....	"	2492	150 00
	H. W. Kuhn.....	"	2493	110 00
	S. E. Rasor.....	"	2494	100 00
	E. F. Coddington.....	"	2495	110 00
	W. F. Magruder.....	"	2496	225 00
	E. A. Hitchcock.....	"	2497	175 00
	Horace Judd	"	2498	120 00
	T. W. Holloway.....	"	2499	60 00
	N. W. Lord.....	"	2500	200 00
	D. J. Demorest.....	"	2501	80 00
	Gustav Bruder	"	2502	20 00
	F. A. Ray.....	"	2503	200 00
	T. B. Simon.....	"	2504	30 00
	G. B. Kauffman.....	"	2505	200 00
	C. A. Dye.....	"	2506	110 00
	W. H. Scott.....	"	2507	225 00
	A. E. Davies.....	"	2508	90 00
	D. C. Huddleson.....	"	2509	100 00
	Maude W. Martin.....	"	2510	80 00
	F. G. Paterson.....	"	2511	7 50
	Lily Weeks	"	2512	26 00
26	B. F. Thomas.....	"	2513	225 00
27	A. D. Cole.....	"	2514	200 00
	R. F. Earhart.....	"	2515	120 00
	H. D. Ayers.....	"	2516	80 00
26	B. L. Bowen.....	"	2517	225 00
27	C. A. Bruce.....	"	2518	150 00

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STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
Jan. 27	E. S. Ingraham.....	Jan. salary	2519	120 00
	Mary James	"	2520	30 00
	Rosalie James	"	2521	30 00
	D. S. White.....	"	2522	200 00
	S. Sisson	"	2523	170 00
	D. H. Udall.....	"	2524	145 00
	O. V. Brumley.....	"	2525	170 00
	J. McL. Phillips.....	"	2526	100 00
	C. F. Payne.....	"	2527	15 90
	Herbert Osborne	"	2528	225 00
	Mrs. J. S. Hine.....	"	2529	120 00
	F. L. Landacre.....	"	2530	120 00
	F. M. Surface.....	"	2531	25 00
	R. M. Royer.....	"	2532	70 00
	L. W. Funk.....	"	2533	60 00
	A. Ribot	"	2534	32 63
	E. B. Dillon.....	"	2535	50 00
	J. M. Butler.....	"	2536	25 00
	G. W. Rightmire.....	"	2537	50 00
	Wade Ellis	"	2538	80 00
	J. E. Beal.....	"	2539	30 00
	R. O. Busey.....	"	2540	30 00
	Alice Smith	"	2541	28 00
	C. W. Bauman.....	"	2542	41 66
	E. S. Guthrie.....	Bal. Jan. salary.....	2543	6 66
	F. A. Fish.....	Jan. salary	2544	55 00
	A. Coggeshall.....	1/2 Jan. salary.....	2545	55 00
	E. A. Sanders.....	Jan. salary.....	2546	30 00
	J. R. Chamberlain.....	"	2547	100 00
	W. H. Scully.....	"	2548	10 00
	R. H. Nesbitt.....	"	2549	20 00
26	R. M. Rownd, P. M.....	"	2550	46 50
30	R. M. Rownd, P. M.....	Stamps and envelopes.....	2551	56 20
Feb. 1	Thos. Montgomery.....	Labor	2552	8 00
4	R. M. Rownd, P. M.....	Stamps	2553	6 00
7	Alexis Cope	Commissions	2554	284 62
14	V. H. Davis, Treas.....	Expense	2555	45 36
	C. Ashenhurst.....	Labor	2556	50 80
	E. Bancroft	"	2557	3 80
	F. E. Bentler.....	"	2558	24 50
	A. Bolenbaugh.....	"	2559	20 85
	W. W. Boyd.....	Expenses	2560	83 75
	Miss H. E. Burgess.....	Labor	2561	7 05
	Shreve Clark	"	2562	6 15
	Marie G. Clark.....	Music	2563	24 00
	E. L. Clemens.....	Labor	2564	49 60
	F. D. Cockins.....	"	2565	16 60
	H. D. Cranston.....	"	2566	3 00
	Thos. F. Davis.....	"	2567	15 80
	Ethel S. Dean.....	"	2568	30 20
	W. O. Dean.....	"	2569	3 00
	John L. Downing.....	"	2570	10 35
	H. E. Dyche.....	"	2571	11 88
	E. E. Finney.....	"	2572	23 60
	C. S. Fisher.....	"	2573	6 15
	Ida M. Fisher.....	"	2574	35 25
	T. E. French.....	Maps of Ohio.....	2575	6 50
	R. R. Garver.....	Labor	2576	8 17

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Feb. 14	E. Gough	Labor	2577	49 60
	A. T. Grener	"	2578	2 60
	W. D. Griffith	"	2579	44 20
	W. W. Hackney	"	2580	6 75
	Fred I. Hauge	"	2581	17 60
	John M. Harsh	"	2582	7 00
	E. D. Holl	"	2583	11 30
	Oscar Holt	"	2584	51 20
	Lilian Huffman	"	2585	38 50
	Chas. H. Kerr	"	2586	6 65
	J. E. Kewley	"	2587	17 45
	H. N. Lucas	"	2588	6 08
	E. L. Mahaffey	"	2589	5 75
	Chester McClintock	"	2590	12 45
	W. C. McCracken	500 lamps	2591	76 50
	Wm. McPherson	Supplies	2592	4 65
	O. V. Maurer	Labor	2593	3 00
	Florerce Metcalf	"	2594	6 60
	F. A. Moore	"	2595	17 48
	Marion Peck	"	2596	9 90
	Lillian Pegg	"	2597	1 60
	T. F. Rataiczak	"	2598	17 14
	C. W. Reeder	"	2599	10 85
	F. L. Schoenberger	"	2600	9 69
	H. A. Seabright	"	2601	16 50
	H. E. Surface	"	2602	15 20
	Edith Seymour	"	2603	2 10
	E. F. Shade	"	2604	9 75
	J. A. Stiver	"	2605	18 60
	R. H. Thomas	"	2606	25 40
	W. O. Thompson	Expenses $\frac{1}{2}$ A. G.		
		Bauenfeld	2607	72 79
	W. G. Van Meter	Labor	2608	13 20
	E. D. Waid	"	2609	28 00
	K. B. Ward	"	2610	2 00
9	S. P. Ward	"	2611	17 40
14	Geo. Washburn	"	2612	10 88
	A. B. Welty	"	2613	11 80
	Wm. Whitestein	"	2614	3 00
	T. A. Wingard	"	2615	4 80
	L. Wolfe	"	2616	14 80
	W. R. Work	"	2617	6 50
27	American Pub. Co.	Supplies	2618	44 20
	Blackwood, Green & Co.	"	2619	26 96
	H. Braun Sons & Co.	Mdse.	2620	16 94
	Bucher Engr. and Mfg. Co.	Balance of acct. to date	2621	52 70
	Central Ohio Oil Co.	1 bbl. oil	2622	15 37
	Central Ohio Paper Co.	Mdse.	2623	18 40
	Champlin Printing Co.	75 eng. sched.	2624	11 50
	J. D. Cherry	2 postal guides	2625	5 00
	The H. Cole Co.	Mdse.	2626	4 60
	Columbus Brass Co.	Urinal etc.	2627	12 06
	Columbus Gas Co.	Coke	2628	10 50
	Columbus Mdse. Co.	Mdse.	2629	14 51
	Columbus Mill and Mine Supply Co.	Waste, cable	2630	57 32
	Columbus Photo Supply Co.	Boxes, mounts	2631	23 25

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
Feb. 27	Columbus Supply Co.....	Mdse.	2632	21 44
	Electric Supply and Const. Co.	Mdse.	2633	30 27
	Engelke & Bigelow.....	Dec. acct.	2634	40 96
	Erner-Hopkins Co.	Supplies	2635	72 73
	Geo. A. Gawler.....	Oiling machine	2636	1 00
	W. J. Hamilton Coal Co....	Coal	2637	13 38
	Hamilton, Parker Co.....	Coal	2638	10 72
	Hann & Adair.....	Blanks, letter heads.	2639	9 75
	H. K. Hill.....	Mdse. Jan., gaso- line	2640	41 32
	Interna. Fence and Fire- proof Co.	Cable	2641	2 80
	Jeffrey Mfg. Co.....	Mdse.	2642	11 27
Mar. 8	Johnson Coal Mining Co...	Dec. coal	2643	1,799 49
Feb. 27	Kauffman-Lattimer Co.	Mdse.	2644	54 65
	Kelton & Converse	Lumber	2645	52 58
	Kinnear Mfg. Co.....	2 doors, mdse.....	2646	112 17
	Geo. H. Morse.....	Ad. in Lantern	2647	50 00
	McClelland & Co.....	Pens mdse.....	2648	2 85
	Mann & Co.....	Grinding razors	2649	6 90
	Monypenny-Hammond Co...	Mdse.	2650	7 09
	C. E. Morris & Co.....	Mdse.	2651	5 53
	Murray City Coal Co.....	Jany. coal	2652	25 31
	New Franklin Prtg. Co....	Bill heads	2653	4 75
	Nitschke Bros.	Mdse.	2654	19 70
	Orr, Brown & Price.....	Mdse.	2655	31 11
	Chas. J. Palmer.....	Mdse.	2656	30 69
	Payne, McDonald Hdwe. Co.	Mdse.	2657	10 83
	Jas. Penn	To Dr. Morrey, Mc- Cracken to date....	2658	7 83
	Pletsch & Sutton.....	Mdse.	2659	2 50
	Thos. Ross	Soda ash	2660	27 57
	Ruggles-Gale Co.	Num. machine	2661	8 00
	Schoedinger, Fearn & Co...	Mdse.	2662	13 12
	E. H. Sell & Co.....	Mdse.	2663	10 60
	Seraphin Blank Book Co....	Rebinding	2664	42 90
	E. G. Smith.....	Mdse.	2665	23 62
	Andrew Spittal	Mdse.	2666	56 30
	Standard Oil Co.....	Mdse.	2667	10 08
	Standish Mach. and Supply Co.	Mdse.	2668	30 47
	M. P. Streett.....	Mason work	2669	35 00
	Tallmudge Hdwe. Co.....	Mdse.	2670	3 95
	Wm. M. Taylor Mantle and Grate Co.	Mdse.	2671	25 00
	Taylor, Williams & Co.....	Coal	2672	11 33
	Underwood Typewriter Co...	2 machines, book....	2673	144 50
	J. M. & W. Westwater.....	Mdse.	2674	60 08
	F. W. Harding, Secy.....	Vol. XI, record....	2675	1 20
	Am. Jersey Cattle Club.....	Vols. 55-59	2676	5 00
	Am. Journal of Physiology.	Vols. XIII	2677	5 00
	W. H. Anderson Co.....	Books	2678	18 00
	Bankers' Pub. Co.....	1 yr. sub.....	2679	5 00
	Barrett Mfg. Co.....	Oil	2680	9 00
	Bausch & Lomb Optical Co.	Mdse.	2681	14 58
	Jas. G. Biddle.....	Mdse.	2682	3 81
	C. S. Bourne.....	Mdse.	2683	6 20

STATEMENT NO. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
Feb. 27	Burrows Bros. Co.....	Books	2684	140 82
	Central Scientific Co.....	Mirror, mdsc.	2685	73 04
	Columbia Refining Co.....	Soap	2686	31 33
	Edw. S. Field.....	Concilio Bib.	2687	22 68
	Fox, Duffield & Co.....	Inter. Quar.	2688	4 00
	Wm. Gaertner & Co.....	Mdsc.	2689	150 40
	Garlock Packing Co.....	H. P. No. 200.....	2690	30 94
	H. L. Fairchild, Secy.....	Vol. 15	2691	5 00
	Laning Co.	Books	2692	18 50
	Jos. McDonough	Books	2693	8 25
	Library Bureau	Books	2694	5 50
	J. L. Mott Iron Works.....	Tools, tubes	2695	18 98
	E. H. Sargent & Co.....	Bunsen burners	2696	20 16
	Schutte & Koerting Co.....	Pump	2697	7 00
	Scioto Lime and Stone Co..	Lime	2698	15 00
	W. W. Karr.....	Chem., Physics is- sues	2699	14 50
	Spencer Lens Co.....	Mdsc.	2700	77 95
Mar. 8	G. E. Stechert & Co.....	Books, etc., per slip enclosed	2701	1,324 35
Feb. 27	Henry Troemer	Scale, repairs	2702	20 95
	Watertown Engine Co.....	Boxes	2703	30 00
	Geo. W. Webster.....	Copying reports	2704	10 00
	Weston El. Inst. Co.....	Repairs	2705	5 28
	H. W. Wilson Co.....	Readers' Guide	2706	12 00
	York Mfg. Co.....	Mdsc.	2707	10 38
9	C. E. Steeb.....	Feby. salary	2708	125 00
	Helena Stewart	Return fees of E. C. Rohrbacher	2709	7 00
	Warren Aylsworth	Return fees	2710	6 00
	H. I. Hadsell.....	Return fees	2711	10 00
	E. P. Hagemeyer.....	Return fees	2712	1 00
10	Jos. V. Denney.....	Feby. salary	2713	250 00
11	R. M. Rownd, P. M.....	Stamps	2714	20 00
14	Col. Railway and Light Co..	St. car tickets.....	2715	5 06
15	J. A. Schneider.....	Labor	2716	19 50
16	F. C. Caldwell.....	Supplies	2717	4 98
	A. D. Cole.....	"	2718	3 45
	Jos. N. Bradford.....	"	2719	2 00
	Geo. L. Converse.....	"	2720	3 60
	V. H. Davis.....	"	2721	4 00
	D. R. Major.....	"	2722	1 00
	R. M. Royer.....	"	2723	2 23
	May Secrest	"	2724	4 79
	B. F. Thomas.....	"	2725	9 98
	Carl E. Steeb.....	Notary work	2726	8 50
18	Central Union Telephone Co.	Ex. service	2727	7 55
24	W. O. Thompson.....	Feb. salary.....	2728	416 67
	K. H. Duncan.....	"	2729	75 00
	E. D. Cockins.....	"	2730	75 00
	Bess C. Watters.....	"	2731	60 00
	Minnie Hines	"	2732	40 00
	W. E. Mann.....	"	2733	83 33
	Lucy M. Taylor.....	"	2734	40 00
	W. C. McCracken.....	"	2735	150 00
	Wm. Standley	"	2736	65 00
	W. H. Case.....	"	2737	55 00
	Thos. Bonde	"	2738	50 00

STATEMENT NO. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Feb. 24	Benj. Le Bay.....	Feb. salary.....	2739	55 00
	Samuel Lowery	"	2740	50 00
	Roy Pratt	"	2741	50 00
	W. Peck	"	2742	45 00
	Geo. Rose	"	2743	75 00
	Harry Osborne	"	2744	25 00
	Chas. Lewis	"	2745	20 00
	R. H. Nesbitt.....	"	2746	20 00
	Chas. Hicks	"	2747	45 00
	Jos. Black	"	2748	25 00
	G. A. Goodspeed.....	"	2749	40 00
	W. M. Stahl.....	"	2750	40 00
	W. R. Thomas.....	"	2751	40 00
	R. Brandon	"	2752	40 00
	Wm. Whitestein	"	2753	40 00
	Harry Chantler	"	2754	40 00
	F. Andrix	"	2755	30 00
	G. C. Denney.....	"	2756	40 00
	M. N. Cook.....	"	2757	40 00
	A. Rudell	"	2758	40 00
	W. E. Cook.....	"	2759	40 00
	John W. Brown.....	"	2760	40 00
	John Brown	"	2761	25 00
	John Brown	"	2762	15 00
	H. M. Templin.....	"	2763	40 00
	H. H. Hamilton.....	"	2764	12 50
	C. H. Bushfield.....	"	2765	12 50
	D. R. Wacker.....	"	2766	18 00
	W. F. Martin.....	"	2767	20 00
	A. B. Probert.....	"	2768	45 00
	John Ricketts	"	2769	45 00
	Jas. Kelley	"	2770	30 00
	M. S. Harvey.....	"	2771	25 00
	C. H. Woodruff.....	"	2772	70 00
	J. P. Coran.....	"	2773	83 33
	A. F. Hall.....	"	2774	73 33
	H. C. Price.....	"	2775	225 00
	J. W. Decker.....	"	2776	170 00
	C. S. Plumb.....	"	2777	200 00
	A. G. McCall.....	"	2778	140 00
	H. S. Arkell.....	"	2779	75 00
	Alex. Argo	"	2780	60 00
	E. F. Mangold.....	"	2781	60 00
	Laurel Hill	"	2782	40 00
	E. S. Guthrie.....	"	2783	66 66
	John Chisholm	"	2784	60 00
	H. A. Weber.....	"	2785	225 00
	A. Vivian	"	2786	150 00
	R. Hirsch	"	2787	60 00
	G. W. Knight.....	"	2788	250 00
	A. H. Tuttle	"	2789	140 00
	H. R. Spencer.....	"	2790	110 00
	A. M. Bleile.....	"	2791	225 00
	M. Dresbach.....	"	2792	80 00
	R. J. Seymour.....	"	2793	30 00
	J. A. Beer.....	"	2794	30 00
	W. C. Mills.....	"	2795	40 00
	W. H. Scully.....	"	2796	10 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Feb. 24	J. N. Bradford.....	Feb. salary.....	2797	210 00
	T. E. French.....	".....	2798	150 00
	T. K. Lewis.....	".....	2799	120 00
	Silas Martin.....	".....	2800	100 00
	J. H. Vosskuehler.....	".....	2801	120 00
	J. S. Tidball.....	".....	2802	80 00
	S. B. Williams.....	".....	2803	30 00
	Ralph Rogers.....	".....	2804	80 00
	H. C. Lord.....	".....	2805	225 00
	B. F. Maag.....	".....	2806	100 00
	C. B. Morrey.....	".....	2807	160 00
	J. H. Schaffner.....	".....	2808	130 00
	H. H. York.....	".....	2809	50 00
	H. A. Gleason.....	".....	2810	30 00
	Mary McKinley.....	".....	2811	30 00
	Jas. McOwen.....	".....	2812	40 00
	S. A. Norton.....	".....	2813	125 00
	Wm. McPherson.....	".....	2814	225 00
	W. E. Henderson.....	".....	2815	160 00
	C. W. Foulk.....	".....	2816	140 00
	H. R. Watkins.....	".....	2817	60 00
23	C. E. Andrews.....	".....	2818	80 00
24	C. G. Stewart.....	".....	2819	60 00
	C. C. Vogt.....	".....	2820	30 00
	J. M. Knute.....	".....	2821	30 00
	C. E. Sherman.....	".....	2822	180 00
	A. H. Heller.....	".....	2823	180 00
	Frank Eno.....	".....	2824	150 00
	H. D. Brunning.....	".....	2825	125 00
	Edw. Orton, Jr.....	".....	2826	200 00
	A. V. Bleininger.....	".....	2827	100 00
	R. C. Purdy.....	".....	2828	50 00
	H. F. Staley.....	".....	2829	20 00
	M. Seymour.....	".....	2830	10 00
	M. A. Stoner.....	".....	2831	180 00
	May Seerest.....	".....	2832	120 00
	Cora Elliott.....	".....	2833	25 00
	J. E. Hagerty.....	".....	2834	160 00
	M. B. Hammond.....	".....	2835	120 00
	D. R. Major.....	".....	2836	160 00
	W. W. Boyd.....	".....	2837	200 00
	T. H. Haines.....	".....	2838	130 00
	F. C. Caldwell.....	".....	2839	190 00
	J. S. Riddle.....	".....	2840	30 00
	Helen Lambdin.....	".....	2841	30 00
	A. C. Barrows.....	".....	2842	225 00
	J. R. Taylor.....	".....	2843	150 00
	W. L. Graves.....	".....	2844	130 00
	G. H. McKnight.....	".....	2845	130 00
	Mary Malloy.....	".....	2846	30 00
	Mina Weaver.....	".....	2847	30 00
	Gertrude Jackson.....	".....	2848	30 00
	W. H. Siebert.....	".....	2849	180 00
	E. H. McNeil.....	".....	2850	100 00
	C. S. Prosser.....	".....	2851	190 00
	J. A. Bownocker.....	".....	2852	160 00
	L. A. Rhoades.....	".....	2853	225 00
	Geo. B. Viles.....	".....	2854	120 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
Feb. 24	B. A. Eisenlohr.....	Feb. salary.....	2855	80 00
	J. R. Smith.....	".....	2856	225 00
	A. W. Hodgman.....	".....	2857	160 00
	W. S. Elden.....	".....	2858	160 00
	W. R. Lazenby.....	".....	2859	225 00
23	V. H. Davis.....	".....	2860	83 33
24	F. E. Sanborn.....	".....	2261	200 00
	W. A. Knight.....	".....	2862	120 00
	W. H. Rench.....	".....	2863	120 00
	C. P. Crowe.....	".....	2864	120 00
	All. Case.....	".....	2865	70 00
	C. M. Beem.....	".....	2866	60 00
	S. C. Derby.....	".....	2867	225 00
	J. H. Outhwaite.....	".....	2868	250 00
	W. H. Page.....	".....	2869	200 00
	E. B. Kinkead.....	".....	2870	130 00
	J. A. Shauck.....	".....	2871	100 00
	E. O. Randall.....	".....	2872	80 00
	G. H. Stewart.....	".....	2873	50 00
	Harriet Schneider.....	".....	2874	40 00
	Olive Jones.....	".....	2875	145 00
	Harriet Townshend.....	".....	2876	60 00
	Gertrude Kellicott.....	".....	2877	80 00
	Maude Jeffrey.....	".....	2878	80 00
	M. Hartford.....	".....	2879	50 00
	Max Morton.....	".....	2880	30 00
	Elizabeth Smythe.....	".....	2881	40 00
	R. D. Bohannon.....	".....	2882	225 00
	G. W. McCoard.....	".....	2883	160 00
	J. E. Boyd.....	".....	2884	150 00
	C. L. Arnold.....	".....	2885	130 00
	K. D. Swartzel.....	".....	2886	150 00
	H. W. Kuhn.....	".....	2887	110 00
	S. E. Razor.....	".....	2888	100 00
	E. F. Coddington.....	".....	2889	110 00
	W. T. Magruder.....	".....	2890	225 00
	E. A. Hitchcock.....	".....	2891	175 00
	H. Judd.....	".....	2892	120 00
	T. W. Halloway.....	".....	2893	60 00
	N. W. Lord.....	".....	2894	200 00
	D. J. Demorest.....	".....	2895	80 00
	Gustav Bruder.....	".....	2896	20 00
	E. A. Ray.....	".....	2897	200 00
	T. B. Simon.....	".....	2898	30 00
	G. B. Knuffman.....	".....	2899	200 00
	C. A. Dye.....	".....	2900	110 00
	W. H. Scott.....	".....	2901	225 00
	A. E. Davies.....	".....	2902	90 00
	D. C. Huddleson.....	".....	2903	100 00
	Maude W. Martin.....	".....	2904	80 00
	E. G. Paterson.....	".....	2905	7 50
	Lily Weeks.....	".....	2906	24 00
	B. F. Thomas.....	".....	2907	225 00
	A. D. Cole.....	".....	2908	200 00
	R. F. Earhart.....	".....	2909	120 00
	H. D. Ayers.....	".....	2910	80 00
	B. L. Bowen.....	".....	2911	225 00
	C. A. Bruce.....	".....	2912	150 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
Feb. 24	E. S. Ingraham.....	Feb. salary.....	2913	120 00
	Mary James.....	".....	2914	30 00
	Rosalie James.....	".....	2915	30 00
	D. S. White.....	".....	2916	200 00
	S. Sisson.....	".....	2917	170 00
	D. H. Udall.....	".....	2918	145 00
	O. V. Brumley.....	".....	2919	170 00
	J. McI. Phillips.....	".....	2920	100 00
	C. F. Payne.....	".....	2921	15 00
	Herbert Osborn.....	".....	2922	225 00
	Mrs. J. S. Hine.....	".....	2923	120 00
	F. L. Landacre.....	".....	2924	120 00
	F. M. Surface.....	".....	2925	25 00
	E. A. Sanders.....	".....	2926	30 00
	R. M. Royer.....	".....	2927	70 00
	L. W. Funk.....	".....	2928	60 00
	A. Ribot.....	".....	2929	32 63
	E. B. Dillon.....	".....	2930	50 00
	J. M. Butler.....	".....	2931	25 00
	G. W. Rightmire.....	".....	2932	50 00
	Wade Ellis.....	".....	2933	80 00
	J. E. Beal.....	".....	2934	30 00
	R. O. Bussey.....	".....	2935	30 00
	Alice Smith.....	".....	2936	28 00
	C. W. Bauman.....	".....	2937	41 66
	J. R. Chamberlain.....	".....	2938	100 00
	A. Coggeshall.....	".....	2939	110 00
21	John S. Walden.....	Return fees.....	2940	8 00
25	Sherman Wolfe.....	Labor.....	2941	50 00
	D. W. McGrath.....	Est. No. 9, Physics bldg.....	2942	3,269 03
28	H. R. Scott.....	Hauling water.....	2943	20 00
	R. M. Rownd, P. M.....	Stamps.....	2944	1 50
Mar. 2	Columbus Gas Co.....	Jan. and Feb. gas.....	2945	381 83
4	Thos. Montgomery.....	Labor.....	2946	12 30
7	Alexis Cope.....	Commission.....	2947	324 36
8	C. Ashenhurst.....	Labor.....	2948	46 40
	F. E. Bentler.....	".....	2949	7 75
	A. Bolenbaugh.....	".....	2950	21 60
	W. W. Boyd.....	Expenses.....	2951	100 60
	H. E. Burgess.....	Labor.....	2952	5 85
	Marie G. Clark.....	Music.....	2953	24 00
	Shreve Clark.....	Labor.....	2954	5 10
	E. L. Clemens.....	".....	2955	44 80
	F. D. Cockins.....	".....	2956	12 00
	Thos. C. Davis.....	".....	2957	9 20
	Ethel S. Dean.....	".....	2958	34 45
	W. V. Dean.....	".....	2959	16 00
	J. W. Decker.....	Supplies.....	2960	8 93
	J. L. Downing.....	Labor.....	2961	10 25
	H. E. Dyche.....	".....	2962	10 00
	A. C. Fieldner.....	".....	2963	2 10
	E. E. Finney.....	".....	2964	12 75
	C. S. Fisher.....	".....	2965	4 80
	Ida M. Fisher.....	".....	2966	23 25
	E. Gough.....	".....	2967	44 80
	W. B. Griffith.....	".....	2968	38 80
	Fred I. Haugh.....	".....	2969	22 25

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Mar. 8	J. M. Harsh.....	Labor	2970	9 60
	E. D. Hall.....	"	2971	11 20
	Oscar Holt	"	2972	41 80
	Lilian Huffman	"	2973	21 75
	Chas. H. Kerr.....	"	2974	5 95
	J. E. Kewley.....	"	2975	8 60
	W. A. Knight.....	"	2976	3 00
	H. C. Lord.....	Supplies	2977	3 50
	H. J. Lucas.....	Labor	2978	2 25
	E. L. Mahaffey.....	"	2979	4 75
	W. E. Mann.....	Notary fees	2980	2 00
	A. G. McCall.....	Expenses	2981	28 85
	C. McClintock	Labor	2982	15 00
	F. A. Moore.....	"	2983	11 10
	Chas. L. Nicklaus.....	"	2984	14 40
	M. Peck.....	"	2985	9 00
	E. O. Randall.....	Expenses	2986	10 40
	T. F. Rataiczak	Labor	2987	8 93
	R. M. Royer.....	Supplies	2988	87
	H. A. Seabright.....	Labor	2989	20 75
	F. L. Schoenberger.....	"	2990	8 06
	E. F. Shade.....	"	2991	7 80
	C. E. Sherman.....	Supplies	2992	9 25
	W. H. Siebert.....	Expenses	2993	9 20
	F. W. Speer.....	Labor	2994	2 25
	J. A. Stiver.....	"	2995	15 45
	H. E. Surface.....	"	2996	14 00
	R. H. Thomas.....	"	2997	7 00
	W. O. Thompson.....	Ex. to Pittsburg and Milwaukee	2998	44 13
	Wm. G. Van Meter.....	Labor	2999	1 50
	E. D. Waide.....	"	3000	19 40
	K. B. Ward.....	Labor	3001	7 75
	S. P. Ward.....	"	3002	13 65
	Geo. Washburn	"	3003	6 28
	A. B. Welty.....	"	3004	12 60
	L. Wolfe.....	"	3005	11 20
	John H. Hina.....	Est. No. 3 Mines bldg	3006	3,573 90
9	Amer. Pub. Co.....	Supplies	3007	30 25
	Armour & Co.....	Tallow	3008	4 00
	Powden Towel Supply Co..	Towel service	3009	7 96
	H. Braun Sons & Co.....	Merchandise	3010	36 33
	Pucher Engr. and Mfg. Co..	Etching	3011	4 84
	Central Ohio Oil Co.....	Oil	3012	15 52
	Central Ohio Paper Co.....	Merchandise	3013	10 80
	Champlin Printing Co.....	Supplies	3014	96 00
	J. W. Chaney.....	1 bbl. salt.....	3015	1 40
	Cherington Prtg. and Engr. Co.....	1 stamp, slips.....	3016	7 00
	Cols. Sporting Goods Co..	Merchandise	3017	12 00
	Columbus Steam Boiler and Heater Co.....	Mdse. and labor.....	3018	15 30
	Columbus Merchandise Co..	To correct error in deducting credit mem	3019	1 20
	Columbus Mill and Mine Supply Co.....	Merchandise	3020	21 06
	Columbus Supply Co.....	"	3021	21 51

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Mar. 9	Cross Lumber Co.....	Lumber	3022	5 40
	W. J. Davidson.....	Merchandise	3023	19 05
	Elliott & Harris.....	Metal, glue	3024	13 13
	Engelke & Bigelow.....	To Jan. account.....	3025	55 08
	Engelke & Bigelow.....	Feb. account	3026	83 67
	Erner-Hopkins Co.	Merchandise	3027	32 88
	Frankenberg Bros.	Files	3028	10 00
	Cartwright & Hood.....	Merchandise	3029	1 21
	W. J. Hamilton Coal Co....	Coal	3030	14 07
	Hann & Adair.....	Envelopes and cards.	3031	3 65
10	Western Union Tel. Co....	% F. C. Caldwell...	3032	2 54
9	H K Hill	Account to date.....	3033	16 31
	Hofman Jewelry Co.....	Clock oil	3034	1 50
	Jeffrey Mfg. Co.....	Merchandise	3035	15 50
	Johnson Coal Mining Co....	January coal	3036	1,904 10
	Johnson Coal Mining Co....	February coal	3037	1,987 88
	Kauffman-Lattimer Co.	Merchandise	3038	78 67
	Kelton & Converse.....	Lumber	3039	2 10
	Kimball & Mathews.....	Plates	3040	1 04
	M. C. Lillev & Co.....	Belts	3041	5 25
	Lutheran Book Concern....	Cards	3042	1 50
	Lynas Bros.	Candles	3043	5 00
	McClelland & Co.....	Records	3044	5 00
	McAllister, Mohler & Co....	Tray drawers, mdse.	3045	7 75
	Murray City Coal Co.....	Coal	3046	25 57
	Neil House	% Dr. Pritchett.....	3047	2 50
	Nitschke Bros.	Merchandise	3048	17 80
	O'Kane-Hull Co.	"	3049	25 72
	Ohio Furn. and Mantle Co..	Chairs	3050	7 50
	Orr, Brown & Price.....	Merchandise	3051	40 12
	Chas. J. Palmer.....	"	3052	64 92
	Jas. Penn	"	3053	5 95
	Phillips Decorating Co.....	Moulding	3054	3 60
	Pure Milk Co.....	Slips	3055	4 00
	Thos. Ross	Soda ash	3056	28 25
	Ruggles-Gale Co.	Merchandise	3057	5 60
	Schoedinger, Fearn & Co...	Mdse., hose	3058	19 05
	E. H. Sell & Co.....	Stencil	3059	2 00
	F. F. Spangler.....	Hauling	3060	50
	Standish Mach. and Supply Co.	Merchandise	3061	37 94
	M. P. Street.....	Labor on tunnel.....	3062	13 65
	Terry Engr. Co.....	Hal tone	3063	10 90
	Tallmadge Hdwe. Co.....	Merchandise	3064	6 15
	J. M. & W. Westwater.....	"	3065	4 10
	J. V. Denney	March salary	3066	250 00
	W. I. Carruthers.....	Per bill	3067	263 50
	Carl E. Steeb.....	Ex. to ills.....	3068	38 76
10	Kelton & Converse.....	Lumber	3069	3 36
	Columbus Supply Co.....	Merchandise	3070	4 80
	Columbus Supply Co.....	"	3071	17 93
	Blackwood, Green & Co....	"	3072	31 00
	Electric Sup. and Const. Co.	"	3073	18 55
	Hook-Hardie Co.	Paint	3074	5 63
	Oakes & Burger.....	Cans	3075	20 40
	H. C. Price, Mgr.....	Labor in dairy dept..	3076	81 96
	Shultz Belting Co.....	Belting	3077	71 69

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Mar. 10	Standish Mach. and Supply Co.	Merchandise	3078	13 33
	York Mfg. Co.	10-ton machine	3079	2,769 00
	Donald McGillioray	Labor	3080	5 00
	A. G. McCall	Supplies	3081	1 80
	Am. Society Mech. Engineers	Vol. No. 25	3082	6 00
	Am. Berkshire Assn.	Vol. No. 23	3083	1 00
	Babcock & Wilcox Co.	Tubes	3084	48 00
	Baker & Adamson Chem. Co.	Merchandise	3085	65 80
	A. Bauersfield	Expenses	3086	5 65
	Bausch & Lomb Optical Co.	Merchandise	3087	22 83
	Jas. G. Biddle	"	3088	1,290 45
	R. R. Bowker	Lit. index	3089	3 50
	E. Braun	Brushes	3090	3 00
	Burrows Bros. Co.	Books	3091	154 18
	Wm. H. Caldwell	"	3092	4 50
	Cooper, Hewitt Electric Co.	1 No. 23 lamp	3093	27 00
	DeLaval Separator Co.	Oil	3094	2 80
	Finola Mfg. Co.	1 bbl. Finola	3095	12 00
	Garlock Packing Co.	Merchandise	3096	9 90
	H. W. Johns-Manville Co.	Painting, covering pipes	3097	216 17
	W. W. Karr	Issues, math. botany	3098	12 45
	E. H. Kellog & Co.	Oil	3099	47 70
	Library Bureau	3 binders	3100	3 45
	Macey-Wernick Co.	Guides	3101	64
	F. N. Mauross	Springs	3102	1 00
	Chas. F. Mason	Telegrams	3103	5 41
	Murphy Iron Works	Merchandise	3104	2 25
	Nernst Lamp Co.	"	3105	61 85
	N. L. Britton	Books	3106	3 75
	Open Court Pub. Co.	Spec. and var.	3107	4 00
	Packard Elec. Co.	Merchandise	3108	3 76
	Richmond Chair Co.	325 chairs	3109	446 88
	A. Sauveur	Iron and steel	3110	5 00
	Stanley Elec. Mfg. Co.	Repairs	3111	5 00
	G. E. Stechert & Co.	Books	3112	93 63
	Swinging Typewriter Stand Co.	1 stand	3113	3 60
	Valvaline Oil Co.	Oil	3114	7 75
	Wagner Glass Works	Glass	3115	6 00
	Webb Sta. and Prtg. Co.	Merchandise	3116	43 55
	H. R. Worthington	"	3117	13 44
	May Secrest	Supplies	3118	3 06
	F. L. Packard	Fees on Est. No. 3	3119	89 34
	R. M. Rownd, P. M.	500 envelopes	3120	10 70
	R. M. Rownd, P. M.	1000 envelopes	3121	22 00
13	Guy W. Mallon	Expenses	3122	8 50
14	C. W. Bauman	March salary	3123	41 68
	F. S. Gutrie	"	3124	66 68
16	L. A. Rhodes	100 2c stamps	3125	2 00
17	W. E. Mann	March salary	3126	83 33
24	W. O. Thompson	"	3127	416 67
	Carl E. Steeb	"	3128	125 00
	K. H. Duncan	"	3129	75 00
	E. D. Cockins	"	3130	75 00
	Bess C. Watters	"	3131	60 00

STATEMENT No. II—Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Mar. 24	Minnie T. Hines.....	March salary.....	3132	40 00
	Lucy M. Taylor.....	".....	3133	40 00
	W. C. McCracken.....	".....	3134	150 00
	Wm. Standley.....	".....	3135	65 00
	W. H. Case.....	".....	3136	55 00
	Thos. Bonde.....	".....	3137	50 00
	Benj. Le Bay.....	".....	3138	55 00
	Samuel Lowery.....	".....	3139	50 00
	Roy Pratt.....	".....	3140	50 00
	Marion Peck.....	".....	3141	45 00
	Geo. Rose.....	".....	3142	75 00
	Harry Osborne.....	".....	3143	25 00
	Chas. Lewis.....	".....	3144	20 00
	R. H. Nesbitt.....	".....	3145	20 00
	Chas. Hicks.....	".....	3146	45 00
	Jas. Black.....	".....	3147	25 00
	G. A. Goodspeed.....	".....	3148	40 00
	W. M. Stahl.....	".....	3149	40 00
	W. R. Thomas.....	".....	3150	40 00
	R. Brandon.....	".....	3151	40 00
	Wm. Whitestein.....	".....	3152	40 00
	Harry Chantler.....	".....	3153	40 00
	F. Andrix.....	".....	3154	30 00
	G. C. Denny.....	".....	3155	40 00
	M. N. Cook.....	".....	3156	40 00
	A. Rudell.....	".....	3157	40 00
	W. E. Cook.....	".....	3158	40 00
	J. W. Brown.....	".....	3159	40 00
	John Brown.....	".....	3160	25 00
	John Brown.....	".....	3161	15 00
	H. M. Templin.....	".....	3162	40 00
	H. H. Hamilton.....	".....	3163	12 50
	C. H. Bushfield.....	".....	3164	12 50
	D. R. Walker.....	".....	3165	18 00
	W. F. Martin.....	".....	3166	20 00
	A. B. Probert.....	".....	3167	45 00
	John Ricketts.....	".....	3168	45 00
	Jas. Kelley.....	".....	3169	30 00
	M. S. Harvey.....	".....	3170	25 00
	C. H. Woodruff.....	".....	3171	70 00
	J. P. Covan.....	".....	3172	83 33
	A. F. Hall.....	".....	3173	73 33
	H. C. Price.....	".....	3174	225 00
	J. W. Decker.....	".....	3175	170 00
	C. S. Plumb.....	".....	3176	200 00
	A. G. McCall.....	".....	3177	140 00
	H. S. Arkell.....	".....	3178	75 00
	Alex. Argo.....	".....	3179	60 00
	E. F. Mungold.....	".....	3180	60 00
	Laurel Hill.....	".....	3181	40 00
	John Christholm.....	".....	3182	60 00
22	H. A. Weber.....	".....	3183	225 00
24	A. Vivian.....	".....	3184	150 00
	R. Hirsch.....	".....	3185	60 00
	G. W. Knight.....	".....	3186	250 00
	A. H. Tuttle.....	".....	3187	140 00
	H. R. Spencer.....	".....	3188	110 00
	A. M. Bleile.....	".....	3189	225 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Mar. 24	M. Dresbach	March salary.....	3190	80 00
	R. J. Seymour.....	"	3191	30 00
	J. A. Beer.....	"	3192	30 00
	W. C. Mills.....	"	3193	40 00
	W. H. Scully.....	"	3194	10 00
	J. N. Bradford.....	"	3195	210 00
	T. E. French.....	"	3196	150 00
	T. K. Lewis.....	"	3197	120 00
	Silas Martin	"	3198	100 00
	J. H. Vosskuehler.....	"	3199	120 00
	J. S. Tidball.....	"	3200	80 00
	S. B. Williams.....	"	3201	30 00
	R. Rogers	"	3202	80 00
	H. C. Lord.....	"	3203	225 00
	B. F. Maag.....	"	3204	100 00
	C. B. Morrey.....	"	3205	160 00
	J. H. Schaffner.....	"	3206	130 00
	H. H. York.....	"	3207	50 00
	H. A. Gleason.....	"	3208	30 00
	Mary McKinley	"	3209	30 00
	Jas. McOwen	"	3210	40 00
	S. A. Norton.....	"	3211	125 00
	Wm. McPherson	"	3212	225 00
	W. E. Henderson.....	"	3213	160 00
	C. W. Foulk.....	"	3214	140 00
	H. R. Watkins.....	"	3215	60 00
	C. E. Andrews.....	"	3216	80 00
	C. G. Stewart.....	"	3217	60 00
	C. C. Vogt.....	"	3218	30 00
	J. M. Knote.....	"	3219	30 00
	C. E. Sherman.....	"	3220	180 00
	A. H. Haller.....	"	3221	180 00
	Frank Eno	"	3222	150 00
	H. D. Bruning.....	"	3223	125 00
	Edw. Orton, Jr.....	"	3224	200 00
	A. V. Bleininger.....	"	3225	100 00
	R. C. Purdy.....	"	3226	50 00
	H. F. Staley.....	"	3227	20 00
	Metta Seymour	"	3228	10 00
	M. A. Stoner.....	"	3229	180 00
	May Secrest	"	3230	120 00
	Cora Elliott	"	3231	25 00
	J. E. Hagerty.....	"	3232	160 00
	M. B. Hammond.....	"	3233	120 00
	D. R. Major.....	"	3234	160 00
	W. W. Boyd.....	"	3235	200 00
	T. H. Haines.....	"	3236	130 00
	F. C. Caldwell.....	"	3237	190 00
	I. S. Riddle.....	"	3238	30 00
	Helen Lambdin	"	3239	30 00
	A. C. Barrows.....	"	3240	225 00
	J. R. Taylor.....	"	3241	150 00
	W. L. Graves.....	"	3242	130 00
	G. H. McKnight.....	"	3243	130 00
	Marv Malloy	"	3244	30 00
	Mina Weaver	"	3245	30 00
	Gertrude Jackson	"	3246	30 00
	W. H. Siebert.....	"	3247	180 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Mar. 24	E. H. McNeal.....	March salary.....	3248	100 00
	C. S. Prosser.....	".....	3249	190 00
	J. A. Bownocker.....	".....	3250	160 00
	L. A. Rhoades.....	".....	3251	225 00
	Geo. Viles.....	".....	3252	120 00
	B. A. Eisenlohr.....	".....	3253	80 00
	J. R. Smith.....	".....	3254	225 00
	A. W. Hodgman.....	".....	3255	160 00
	W. S. Elden.....	".....	3256	160 00
	W. R. Lazenby.....	".....	3257	225 00
	V. H. Davis.....	".....	3258	83 33
	F. E. Sanborn.....	".....	3259	200 00
	W. A. Knight.....	".....	3260	120 00
	W. H. Rench.....	".....	3261	120 00
	C. P. Crowe.....	".....	3262	120 00
	All. Case.....	".....	3263	70 00
	C. M. Beem.....	".....	3264	60 00
	S. C. Derby.....	".....	3265	225 00
	J. T. Outhwaite.....	".....	3266	250 00
	W. H. Page.....	".....	3267	200 00
	E. B. Kinkead.....	".....	3268	130 00
	J. A. Shauck.....	".....	3269	100 00
	E. O. Randall.....	".....	3270	80 00
	G. H. Stewart.....	".....	3271	50 00
	Harriet Schneider.....	".....	3272	40 00
22	Olve Jones.....	".....	3273	145 00
24	Harriet Townshend.....	".....	3274	60 00
	Gertrude Kellicott.....	".....	3275	80 00
	Maude Jeffrey.....	".....	3276	80 00
	Martha Hartford.....	".....	3277	50 00
	Max Morton.....	".....	3278	30 00
	Elizabeth Smythe.....	".....	3279	40 00
	R. D. Bohannon.....	".....	3280	225 00
	G. W. McCoard.....	".....	3281	160 00
	J. E. Boyd.....	".....	3282	150 00
	C. L. Arnold.....	".....	3283	130 00
	K. D. Swartzel.....	".....	3284	150 00
	H. W. Kuhn.....	".....	3285	110 00
	S. E. Rasor.....	".....	3286	100 00
	E. F. Coddington.....	".....	3287	110 00
	W. T. Magruder.....	".....	3288	225 00
	E. A. Hitchcock.....	".....	3289	175 00
	Horace Judd.....	".....	3290	120 00
	T. W. Holloway.....	".....	3291	60 00
	N. W. Lord.....	".....	3292	200 00
	D. J. Demorest.....	".....	3293	80 00
	Gustav Bruder.....	".....	3294	20 00
	F. A. Ray.....	".....	3295	200 00
	T. B. Simon.....	".....	3296	30 00
	G. B. Kauffman.....	".....	3297	200 00
	C. A. Dye.....	".....	3298	110 00
	W. H. Scott.....	".....	3299	225 00
	A. E. Davies.....	".....	3300	90 00
	D. C. Huddleson.....	".....	3301	100 00
	Maude W. Martin.....	".....	3302	80 00
	F. G. Paterson.....	".....	3303	7 50
	Lily Weeks.....	".....	3304	27 00
	B. F. Thomas.....	".....	3305	225 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
Mar. 24	A. D. Cole.....	March salary.....	3306	200 00
	R. F. Earhart.....	".....	3307	120 00
	H. D. Ayers.....	".....	3308	80 00
	B. L. Bowen.....	".....	3309	225 00
	C. A. Bruce.....	".....	3310	150 00
	E. S. Ingraham.....	".....	3311	120 00
	Mary James.....	".....	3312	30 00
	Rosalie James.....	".....	3313	30 00
	D. S. White.....	".....	3314	200 00
	S. Sisson.....	".....	3315	170 00
	D. H. Udall.....	".....	3316	145 00
	O. V. Brumley.....	".....	3317	170 00
	J. McL. Phillips.....	".....	3318	100 00
	C. F. Payne.....	".....	3319	15 00
	Herbert Osborn.....	".....	3320	225 00
	Mrs. J. S. Hine.....	".....	3321	120 00
	F. L. Landacre.....	".....	3322	120 00
	F. M. Surface.....	".....	3323	25 00
	E. A. Sanders.....	".....	3324	30 00
	R. M. Royer.....	".....	3325	70 00
	L. W. Funk.....	".....	3326	60 00
	A. Ribot.....	".....	3327	32 63
	E. B. Dillon.....	".....	3328	50 00
	J. M. Butler.....	".....	3329	25 00
	G. W. Rightmire.....	".....	3330	50 00
	Wade Ellis.....	".....	3331	80 00
	J. E. Beal.....	".....	3332	30 00
	R. V. Busey.....	".....	3333	30 00
	Alice Smith.....	".....	3334	28 00
	J. R. Chamberlain.....	".....	3335	100 00
	Allan Coggeshall.....	".....	3336	110 00
17	H. R. Scott.....	Hauling water.....	3337	7 50
18	W. I. Carruthers.....	Final est. (Boiler House).....	3338	274 55
	W. I. Carruthers.....	Final est. (Dairy).....	3339	129 55
21	R. M. Rownd, P. M.....	500 stamps.....	3340	10 00
	Central Union Telephone Co.	March service.....	3341	3 40
22	S. G. Zemer.....	Bat. clerk.....	3342	20 00
	Sherman Wolfe.....	March salary.....	3343	50 00
27	R. M. Rownd, P. M.....	75 stamps.....	3344	1 50
	Earl Conway.....	Salary.....	3345	40 00
	A. B. Piper.....	Bat. clerk.....	3346	20 00
28	H. R. Scott.....	Labor.....	3347	12 00
30	R. M. Rownd, P. M.....	5000 envelopes.....	3348	107 00
Apr. 4	Columbus Gas Co.....	March gas.....	3349	237 60
	Central Union Telephone Co.	Ex. service.....	3350	19 00
5	R. M. Rownd, P. M.....	Stamps.....	3351	77 00
6	Thos. Montgomery.....	Labor.....	3352	8 60
	R. M. Rownd, P. M.....	500 envelopes.....	3353	10 60
8	Adelaide Fulton.....	Return fees.....	3354	7 00
	Central Union Telephone Co.	Services.....	3355	15 40
10	Carl E. Steeb, Secy.....	Fees H. F. Staley.....	3356	8 00
	J. F. Arundel.....	Return fees.....	3357	1 00
	John Bauer.....	Fees F. H. Bamer.....	3358	8 00
	I. S. Cook, Jr.....	Return fees.....	3359	10 00
	A. T. Grener.....	".....	3360	8 00
	E. Kimball.....	".....	3361	9 00
	T. M. Gregory, Jr.....	".....	3362	9 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1965.				
Apr. 10	J. A. Main.....	Return fees.....	3363	1 00
	W. B. Ogelsby.....	".....	3364	1 00
	Chas. Rietz.....	".....	3365	3 00
	Nellie G. Salt.....	".....	3366	6 00
	H. C. Whitmer.....	".....	3367	30 00
	W. Weyrich.....	".....	3368	8 00
11	Chas. B. Morrey.....	Supplies.....	3369	2 50
	W. E. Mann.....	April salary.....	3370	83 33
13	C. Ashenhurst.....	Labor.....	3371	49 60
	J. F. Barker.....	".....	3372	10 50
	C. R. Bell.....	".....	3373	2 55
	Gertrude Bellows.....	".....	3374	6 80
	F. E. Bentler.....	".....	3375	15 63
	E. J. Billings.....	".....	3376	6 38
	A. Bolenbaugh.....	".....	3377	22 80
	W. W. Boyd.....	Expenses.....	3378	65 75
	J. E. Boyd.....	Supplies.....	3379	25 00
	Helen Burgess.....	Labor.....	3380	3 60
	Marie G. Clark.....	".....	3381	19 00
	F. D. Cockins.....	".....	3382	10 20
	E. L. Clemens.....	".....	3383	49 60
	Ethel S. Dean.....	".....	3384	39 90
	Geo. L. Converse.....	Supplies.....	3385	7 25
	Thos. C. Davis.....	Labor.....	3386	11 25
	J. V. Denney.....	Expenses.....	3387	25 86
	J. L. Downing.....	Labor.....	3388	9 60
	Effie Duncan.....	".....	3389	7 90
	C. Dewey.....	".....	3390	60
	H. E. Dyche.....	".....	3391	13 98
	Grace Eagleson.....	".....	3392	3 35
	F. H. Eno.....	Supplies.....	3393	19 60
	C. S. Fisher.....	Labor.....	3394	12 45
	Ida M. Fisher.....	".....	3395	26 25
	T. E. French.....	Labor and plates.....	3396	3 00
	E. Gough.....	Labor.....	3397	52 00
	W. D. Griffith.....	".....	3398	49 30
	F. G. Green.....	".....	3399	8 75
	H. C. George.....	".....	3400	1 50
	E. E. Finney.....	".....	3401	5 15
	F. I. Hauge.....	".....	3402	10 75
	J. W. Hepner.....	".....	3403	7 58
	E. D. Holl.....	".....	3404	3 40
	Oscar Holt.....	".....	3405	16 00
	C. B. Herrop.....	Drawings.....	3406	3 50
	Lillian Huffman.....	Labor.....	3407	25 00
	C. H. Kerr.....	".....	3408	6 65
	J. E. Kewley.....	".....	3409	11 15
	J. H. Kindle.....	".....	3410	7 50
	Margaret Knight.....	".....	3411	3 20
	E. L. Mahaffy.....	".....	3412	4 63
	C. McClintock.....	".....	3413	16 05
	B. E. Merrill.....	".....	3414	4 88
	G. B. Merrill.....	".....	3415	4 43
	Florence Metcalf.....	".....	3416	7 40
	J. C. Miron.....	".....	3417	5 70
	C. E. Moore.....	".....	3418	6 30
	F. A. Moore.....	".....	3419	13 50
	M. Peck.....	".....	3420	9 90

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Apr. 13	Helen Powell	Labor	3431	7 40
	J. H. Randall	"	3422	15 00
	T. F. Rataiczak	"	3423	9 56
	C. W. Reeder	"	3424	15 70
	R. S. Richards	"	3425	1 50
	H. W. Riley	"	3426	70
	R. M. Royer	Supplies	3427	2 62
	J. I. Sample	Labor	3428	6 38
	J. A. Schneider	"	3429	66 00
	H. A. Seabright	"	3430	19 26
	Edith Sevmour	"	3431	1 50
	E. F. Shade	"	3432	13 25
	W. E. Shew	"	3433	1 28
	L. M. Steckel	"	3434	2 92
	J. A. Stiver	"	3435	19 05
	H. E. Surface	"	3436	13 80
	G. B. Thomas	"	3437	3 23
	R. H. Thomas	"	3438	11 20
	W. O. Thompson	Supplies	3439	7 72
	G. F. Tyrrell	Labor	3440	1 80
	Wm. G. Van Meter	"	3441	2 80
	E. D. Waid	"	3442	21 80
	S. P. Ward	"	3443	12 45
	Hilda Weber	"	3444	3 20
	H. A. Weber	Supplies	3445	1 65
	A. B. Welty	Labor	3446	17 60
	Wm. Whitstein	"	3447	9 24
	W. R. Work	"	3448	11 00
	L. Wolfe	"	3449	32 00
14	American Entomological Co.	Merchandise	3450	55 50
	W. H. Anderson Co.	Books	3451	68 75
	J. E. Armstrong, Treas.	Au. fee N. C. A.	3452	10 00
	Ashcraft Mfg. Co.	Plainmeter	3453	12 16
	Bausch & Lomb Optical Co.	Merchandise	3454	11 00
	Jas. G. Biddle	"	3455	39 31
	J. Bishop & Co.	Repairing	3456	10 55
	Buffalo Scale Co.	Scale	3457	29 40
	Crosby Steam Gage and Valve Co.	Merchandise	3458	6 75
	Eimer & Amend	1 pr. ther	3459	10 00
	Burrows Bros. Co.	Books	3460	96 46
	Henry J. Green	50 thers	3461	72 50
	Hohman & Maurer Mfg. Co.	Merchandise	3462	20 25
	Foote Mineral Co.	"	3463	21 75
	General Electric Co.	"	3464	32 27
	Leeds & Northrup Co.	Merchandise, coils ..	3465	172 50
	Machado & Roller	Repairs	3466	14 25
	Scioto Lime and Stone Co.	Lime	3467	15 00
	Richmond Chair Co.	Chairs	3468	62 50
	Standard Chain Co.	Iron	3469	15 57
	G. E. Stechert & Co.	Books	3470	51 00
	M. P. Streett	Mason work, repairs ..	3471	89 80
	Edw. Thompson Co.	Am. and Eng. Ency. of Law, Vol 29 ..	3472	6 00
	John P. Troy	70 slides	3473	17 50
	C. H. Staelting Co.	Merchandise	3474	9 44
13	Leo Veit	Repairs	3475	14 75
14	American Pub. Co.	Supplies	3476	59 75

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Apr. 14	Amer. Dist. Telegraph Co..	Signal service Jan.. Feb., March	3477	97 00
	Artistic Upholstery Works..	Repairing, etc	3478	48 00
	Bancroft Bros. Co.....	Repairs	3479	4 50
	Blackwood, Green & Co....	Sheet iron	3480	4 75
	Bowden Towe Supply Co..	Biolog. Hall, Gym..	3481	69 77
	H. Braun Sons & Co.....	Supplies	3482	24 54
	Jas. P. Carlile.....	Merchandise	3483	25 80
	Central Ohio Oil Co.....	Oil	3484	34 76
	Cherington Prtg. and Engr. Co.	Slips	3485	6 50
	Columbus Brass Co.....	Merchandise	3486	57 20
	Columbus Mdse. Co.....	Erasers	3187	4 32
	Columbus Mill and Mine Supply Co	Pulleys, packing, hose	3488	18 00
	Columbus Photo Supply Co.	Merchandise	3489	108 40
	Columbus Supply Co.....	"	3490	22 87
	Alexis Cope	Expenses	3491	43 50
	Geo. D. Cross Lumber Co..	Lumber	3492	56 41
	L. M. Early.....	Apparatus	3493	15 00
	Engelke & Bigelow.....	March bills	3494	32 31
	N. C. Hager.....	Merchandise	3495	4 48
	W. J. Hamilton Coal Co..	Coal	3496	8 49
	Headley & Shotwell.....	Swan's Treat	3497	6 00
	H. K. Hill.....	Merchandise	3498	28 20
	Johnson Coal Mining Co.	March coal	3499	1,322 30
	Kauffman-Lattimer Co.	Merchandise	3500	120 74
	Krauss, Butler & Benham..	3 shades	3501	3 30
	The M. C. Lilley & Co.....	Corundum	3502	3 60
	Murray City Coal Co.....	Coal	3503	21 48
	New Franklin Prtg Co.....	Blanks	3504	26 00
	Nitschke Bros	Supplies	3505	20 37
	O'Kane-Hull Co.	Mdse.	3506	3 06
	Payne, McDonald Hdwe. Co.	Mdse.	3507	3 10
	F. B. Pearson.....	3 ads.	3508	22 50
	Jas. Penn	Hawling	3509	3 10
	Pure Milk Co.....	Milk	3510	2 66
	Thomas Ross	Soda ash	3511	27 57
	Ruggles-Gale Co.	Mdse.	3512	9 15
	E. H. Sell & Co.....	Carbon	3513	2 50
	Seraphin Blank Book Co..	Bndg. 4 reports.....	3514	4 00
	Spahr & Glenn.....	Printing	3515	51 25
	Standard Oil Co.....	Oil	3516	4 75
	Standish Mach. and Sup. Co.	Mdse.	3517	6 48
	Tallmadge Hdwe. Co.....	Mdse.	3518	3 78
	Terry Engraving Co.....	Retouching	3519	4 25
	Tracy-Wells Co.....	Mdse.	3520	53 72
	J. M. & W. Westwater.....	Mdse.	3521	5 00
	D. W. McGrath.....	Est. No. 10, Physics bldg.	3522	5,095 22
	Nichol & Carr.....	Est. No. 3, Chemical bldg.	3523	3,619 75
	Nichol & Carr.....	Extra No. 2, Chem- ical bldg.	3524	142 03
	F. M. Surface.....	Fish	3525	4 00
18	Cols. Citizen Telephone Co.	Phone service	3526	181 20
	John Brown	Salary in full to date.	3527	24 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
Apr. 21	Jno. T. Mack.....	Expenses	3528	21 35
	Carl E. Steeb.....	April salary	3529	125 00
	R. M. Rownd, P. M.....	Stamps	3530	17 00
22	Alexis Cope	Commission	3531	218 20
25	Cedric Chivers	Fiske.—Crit. Period..	3532	1 80
	J. V. Denney.....	April salary	3533	250 00
	W. O. Thompson.....	April salary	3534	416 67
	Ross P. Marsteller.....	Vet. clinic fees.....	3535	49 42
26	Cols. Water Works.....	Hyd. Nos. 2814, 6,573, 16,974	3536	1,386 94
28	K. H. Duncan.....	April salary	3537	75 00
	E. D. Cockins.....	"	3538	75 00
	Bess C. Watters.....	"	3539	60 00
	M. S. Hines.....	"	3540	40 00
	L. M. Taylor.....	"	3541	40 00
	W. C. McCracken.....	"	3542	150 00
	Wm. Standley	"	3543	65 00
	W. H. Case.....	"	3544	55 00
	Thos. Bonde	"	3545	50 00
	Benj. Le Bay	"	3546	55 00
	Samue Lowery	"	3547	50 00
	Roy Pratt	"	3548	50 00
	Marion Peck	"	3549	45 00
	Geo. Rose	"	3550	75 00
	Harry Osborne	"	3551	25 00
	Chas. Lewis	"	3552	20 00
	R. H. Nesbitt.....	"	3553	20 00
	Chas. Hicks	"	3554	45 00
	Jos. Black	"	3555	25 00
	G. A. Goodspeed.....	"	3556	40 00
	W. M. Stahl.....	"	3557	40 00
	W. R. Thomas.....	"	3558	40 00
	R. Brandon	"	3559	40 00
	Wm. Whitestein	"	3560	40 00
	Harry Chantler	"	3561	40 00
	F. Andrix	"	3562	30 00
	G. C. Denny.....	"	3563	40 00
	M. N. Cook.....	"	3564	40 00
	A. Rudall	"	3565	40 00
	W. E. Cook.....	"	3566	40 00
	J. W. Brown.....	"	3567	40 00
	H. M. Templin.....	"	3568	40 00
	Earl Conway	"	3569	40 00
	H. H. Hamilton.....	"	3570	12 50
	C. H. Bushfield.....	"	3571	12 50
	D. R. Walker.....	"	3572	18 00
	W. F. Martin.....	"	3573	20 00
	A. B. Probert.....	"	3574	45 00
	John Ricketts	"	3575	45 00
	Ias. Kelley	"	3576	30 00
	M. S. Harvey.....	"	3577	25 00
	C. H. Woodruff.....	"	3578	70 00
	J. P. Covan.....	"	3579	83 33
	A. F. Hall.....	"	3580	73 33
	H. C. Price.....	"	3581	225 00
	J. W. Decker.....	"	3582	170 00
	C. S. Plumb.....	"	3583	200 00
	A. G. McCall.....	"	3584	140 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Apr. 28	Alex Argo	April salary	3585	60 00
	E. F. Mangold	"	3586	60 00
	Laurel Hill	"	3587	40 00
	John Chisholm	"	3588	60 00
	H. A. Weber	"	3589	225 00
	A. Vivian	"	3590	150 00
	R. Hirsch	"	3591	60 00
	G. W. Knight	"	3592	250 00
	A. H. Tuttle	"	3593	140 00
	H. R. Spencer	"	3594	110 00
	A. M. Bleile	"	3595	225 00
	M. Dresbach	"	3596	80 00
	R. J. Seymour	"	3597	30 00
	J. A. Beer	"	3598	30 00
	W. C. Mills	"	3599	40 00
	W. H. Scully	"	3600	10 00
	J. N. Bradford	"	3601	210 00
	T. E. French	"	3602	150 00
	T. K. Lewis	"	3603	120 00
	Silas Martin	"	3604	100 00
	J. H. Vosskuehler	"	3605	120 00
	J. S. Tidball	"	3606	80 00
	S. B. Williams	"	3607	30 00
	R. Rogers	"	3608	80 00
	H. C. Lord	"	3609	225 00
	B. F. Maag	"	3610	100 00
	C. B. Morrey	"	3611	160 00
	W. A. Kellerman	"	3612	225 00
	J. H. Schaffner	"	3613	130 00
	H. H. York	"	3614	50 00
	H. A. Gleason	"	3615	30 00
	Jas. McOwen	"	3616	40 00
	S. A. Norton	"	3617	125 00
	Wm. McPherson	"	3618	225 00
	W. E. Henderson	"	3619	160 00
	C. W. Foulk	"	3620	140 00
	H. R. Watkins	"	3621	60 00
	C. E. Andrews	"	3622	80 00
	C. G. Stewart	"	3623	60 00
	C. C. Vogt	"	3624	30 00
	J. M. Knote	"	3625	30 00
	C. E. Sherman	"	3626	180 00
	A. H. Heller	"	3627	180 00
	F. H. Eno	"	3628	150 00
	H. D. Bruning	"	3629	125 00
	Edw. Orton, Jr.	"	3630	200 00
	A. V. Bleininger	"	3631	100 00
	R. C. Purdy	"	3632	50 00
	H. F. Staley	"	3633	20 00
	M. Seymour	"	3631	10 00
	M. A. Stoner	"	3635	180 00
	May Secrest	"	3636	120 00
	Cora Elliott	"	3637	25 00
	J. E. Hagerty	"	3638	160 00
	M. B. Hammond	"	3639	120 00
	D. R. Major	"	3640	160 00
	W. W. Boyd	"	3641	200 00
	T. H. Hines	"	3642	130 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Apr. 28	F. C. Caldwell.....	April salary.....	3643	190 00
	J. S. Riddle.....	".....	3644	30 00
	Helen Lambdin.....	".....	3645	30 00
	A. C. Barrows.....	".....	3646	225 00
	J. R. Taylor.....	".....	3647	150 00
	W. L. Graves.....	".....	3648	130 00
	G. H. McKnight.....	".....	3649	130 00
	Mary Malloy.....	".....	3650	30 00
	Mina Weaver.....	".....	3651	30 00
	Gertrude Jackson.....	".....	3652	30 00
	W. H. Siebert.....	".....	3653	180 00
	E. H. McNeal.....	".....	3654	100 00
	C. S. Prosser.....	".....	3655	190 00
	J. A. Bownocker.....	".....	3656	160 00
	L. A. Rhoades.....	".....	3657	225 00
	G. B. Viles.....	".....	3658	120 00
	B. A. Eisenlohr.....	".....	3659	80 00
	J. R. Smith.....	".....	3660	225 00
	A. W. Huffman.....	".....	3661	160 00
	W. S. Elden.....	".....	3662	160 00
	W. R. Lazenby.....	".....	3663	225 00
	V. H. Davis.....	".....	3664	83 33
	F. E. Sanborn.....	".....	3665	200 00
	W. A. Knight.....	".....	3666	120 00
	W. H. Rench.....	".....	3667	120 00
	C. P. Crowe.....	".....	3668	120 00
	All Case.....	".....	3669	70 00
	C. M. Beem.....	".....	3670	60 00
	S. C. Derby.....	".....	3671	225 00
	J. H. Outhwaite.....	".....	3672	250 00
	W. H. Page.....	".....	3673	200 00
	E. B. Kinkad.....	".....	3674	130 00
	J. A. Shauck.....	".....	3675	100 00
	E. O. Randall.....	".....	3676	80 00
	G. H. Stewart.....	".....	3677	50 00
	H. Schneider.....	".....	3678	40 00
	Olive Jones.....	".....	3679	145 00
	H. Townshend.....	".....	3680	60 00
	G. Kellicott.....	".....	3681	80 00
	Maude Jeffrey.....	".....	3682	80 00
	Martha Hartford.....	".....	3683	50 00
	Max Morton.....	".....	3684	30 00
	Elizabeth Smythe.....	".....	3685	40 00
	R. D. Bohannon.....	".....	3686	225 00
	G. W. McCoard.....	".....	3687	160 00
	J. E. Boyd.....	".....	3688	150 00
	C. L. Arnold.....	".....	3689	130 00
	K. D. Swartzel.....	".....	3690	150 00
	H. W. Kuhn.....	".....	3691	110 00
	S. E. Rasor.....	".....	3692	100 00
	E. F. Coddington.....	".....	3693	110 00
	W. T. Magruder.....	".....	3694	225 00
	E. A. Hitchcock.....	".....	3695	175 00
	H. Indd.....	".....	3696	120 00
	N. W. Lord.....	".....	3697	200 00
	D. J. Demorest.....	".....	3698	80 00
	Gustav Bruder.....	".....	3699	20 00
	F. A. Ray.....	".....	3700	200 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. Apr. 28	T. B. Simon.....	April salary.....	3701	30 00
	G. B. Kauffman.....	".....	3702	200 00
	C. A. Dye.....	".....	3703	110 00
	W. H. Scott.....	".....	3704	225 00
	A. E. Davis.....	".....	3705	90 00
	D. C. Huddleson.....	".....	3706	100 00
	Maude W. Martin.....	".....	3707	80 00
	F. G. Paterson.....	".....	3708	7 50
	Lily Weeks.....	".....	3709	25 00
	B. F. Thomas.....	".....	3710	225 00
	A. D. Cole.....	".....	3711	200 00
	R. F. Earhart.....	".....	3712	120 00
	H. D. Ayers.....	".....	3713	80 00
	B. L. Bowen.....	".....	3714	225 00
	C. A. Bruce.....	".....	3715	150 00
	E. S. Ingraham.....	".....	3716	120 00
	Marv James.....	".....	3717	30 00
	Rosalie James.....	".....	3718	30 00
	D. S. White.....	".....	3719	200 00
	S. Sisson.....	".....	3720	170 00
	D. H. Udall.....	".....	3721	145 00
	O. V. Brumley.....	".....	3722	170 00
	J. McL. Phillips.....	".....	3723	100 00
	C. F. Payne.....	".....	3724	15 00
	Herbert Osborn.....	".....	3725	225 00
	J. S. Hine.....	".....	3726	120 00
	F. L. Landacre.....	".....	3727	120 00
	F. M. Surface.....	".....	3728	25 00
	Arnie E. Smead.....	".....	3729	30 00
	R. M. Royer.....	".....	3730	70 00
	L. W. Funk.....	".....	3731	60 00
	A. Ribot.....	".....	3732	32 63
	E. R. Dillon.....	".....	3733	50 00
	J. M. Butler.....	".....	3734	25 00
	G. W. Rightmire.....	Feb., Mch. and April salary.....	3735	200 00
	Wade Ellis.....	April salary.....	3736	80 00
	J. E. Beal.....	".....	3737	30 00
	R. O. Busey.....	".....	3738	30 00
	Alice Smith.....	".....	3739	28 00
	J. R. Chamberlain.....	".....	3740	100 00
	A. Coggeshall.....	".....	3741	110 00
	Caroline Carmack.....	".....	3742	30 00
	Carl W. Gray.....	".....	3743	120 00
	Gustav Bruder.....	Service for winter term.....	3744	50 00
	F. A. Derthick.....	Expenses.....	3745	39 00
	R. M. Rownd, P. M.....	Stamps.....	3746	3 00
	Sherman Wolfe.....	Labor.....	3747	50 00
	R. M. Rownd, P. M.....	500 envelopes.....	3748	10 60
May 1	G. C. Cooley.....	Supplies.....	3749	1 35
2	Alexis Cope.....	Commission.....	3750	122 62
	Nichol & Carr.....	Est. No. 4.....	3751	6,080 00
5	C. Ashenhurst.....	Labor.....	3752	48 00
	F. E. Bentler.....	".....	3753	10 50
	R. D. Bohannon.....	Expenses.....	3754	32 20
	A. Rolenbaugh.....	Labor.....	3755	24 45
	R. M. Borrer.....	".....	3756	5 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. May 5	W. W. Boyd.....	Expenses	3757	141 70
	H. E. Burgess.....	Labor	3758	4 50
	Marie G. Clark.....	Music	3759	21 00
	E. L. Clements.....	Labor	3760	12 80
	Thos. C. Davis.....	"	3761	10 75
	J. V. Denney.....	Expenses	3762	5 00
	J. L. Downing.....	Labor	3763	5 95
	Effie Duncan.....	"	3764	1 60
	H. E. Dyche.....	"	3765	10 00
	Chas. S. Fisher.....	"	3766	6 00
	Ida M. Fisher.....	"	3767	21 00
	E. Gough.....	"	3768	48 00
	Lillian Huffman.....	"	3769	23 50
	W. A. Kellerman.....	Supplies	3770	9 54
	Chas. H. Kerr.....	Labor	3771	6 30
	J. E. Kewley.....	"	3772	10 45
	J. H. Kindle.....	"	3773	9 00
	W. R. Lazenby.....	Supplies	3774	2 00
	H. C. Lord.....	"	3775	4 52
	Clara G. Mack.....	Labor	3776	7 35
	E. L. Mahaffey.....	"	3777	2 50
	Ross Marstetter.....	Supplies	3778	16 70
	C. McClintock.....	Labor	3779	14 25
	Wm. McPherson.....	Supplies	3780	7 30
	Florence M. Metcalf.....	Labor	3781	3 60
	F. A. Moore.....	"	3782	12 38
	M. Peck.....	"	3783	8 10
	J. McI. Phillips.....	Supplies	3784	9 25
	A. B. Piper.....	Labor	3785	4 13
	T. F. Rataiczak.....	"	3786	5 29
	C. W. Reeder.....	"	3787	10 35
	May Secrest.....	Supplies	3788	2 05
	E. F. Shade.....	Labor	3789	9 87
	S. Sisson.....	Supplies	3790	5 95
	Carl E. Steeb.....	Expenses	3791	7 10
	J. A. Stiver.....	Labor	3792	18 45
	D. H. Udall.....	Supplies	3793	8 25
	E. D. Waid.....	Labor	3794	26 00
	Geo. Washburn.....	"	3795	19 00
	H. G. Weiland.....	"	3796	32 00
	A. B. Welty.....	"	3797	17 30
	D. S. White.....	Supplies	3798	108 65
	L. Wolfe.....	Labor	3799	48 00
	C. A. Dye.....	Supplies	3800	4 22
	Allen Randall Co.....	Mdse.	3801	45 35
	Chas. Caspari, Jr., Secy.....	1 set proceedings.....	3802	45 58
	E. Bartholomew.....	1 Cent. XXI.....	3803	6 00
	Pensch & Lomb Optical Co.....	Supplies	3804	23 00
	Jos. G. Piddle.....	Mdse.	3805	134 12
	E. W. Braun Co.....	Mdse.	3806	180 22
	Brown & Sharpe Mfg. Co.....	"	3807	25 67
	I. H. Brumell & Co.....	Switch board	3808	33 00
	Burrows Bros. Co.....	Books	3809	78 72
	S. F. Cassino.....	Nat. directory	3810	2 62
	Detroit Caviary.....	1 doz. G. pigs.....	3811	3 60
	Finger & Anand.....	Mdse.	3812	3 85
	D. M. Ferry & Co.....	Mdse.	3813	43 90
	Globe Rolling Mill Co.....	Angles	3814	4 58

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. May 5	Geo. W. Hoffman.....	Polish	3815	3 00
	W. W. Karr.....	Bact.	3816	4 95
	King Mfg. Co.....	Sacks	3817	7 50
	L. E. Knott Apparatus Co..	Pictures	3818	10 00
	H. Kohlbusch	Weights	3819	7 73
	Wm Laycock Co.....	Mdse.	3820	6 60
	Library Bureau	Mdse.	3821	49 84
	Manzel Bros.	Oil pump	3822	1 00
	Jas. McCrea & Co.....	Spanner	3823	14 06
	Merchants' Pub. Co.....	Mdse.	3824	7 20
	Murphy Iron Works.....	Arms, bar	3825	4 75
	R. R. Bowker.....	Lit index	3826	3 50
	Review of Reviews Book Co.	Country calendar...	3827	1 00
	Samuel N. Rhoads.....	Books	3828	17 80
	Scioto Lime and Stone Co..	Lime	3829	15 00
	Irvin Shepard	Proceedings N. E. A.	3830	2 00
	Sharp & Smith	Repairs	3831	72
	E. R. Smith & Sons.....	Paper	3832	15 39
	G. E. Stechert & Co.....	Books	3833	146 20
	The Storrs & Harrison Co..	Trees	3834	6 93
	Union Mfg. Co.....	Mdse.	3835	33 00
	Western Kieley Steam Spe- cialty Co.....	Trap	3836	12 50
	Syracuse Chilled Plow Co..	Plow	3837	9 50
	M. Bartler	Labor	3838	1 65
	A. O. Crites	"	3839	7 50
	Chas. Dewey	"	3840	5 25
	W. J. Davis	"	3841	4 50
	E. M. Elliott.....	"	3842	1 50
	F. G. Green	"	3843	78 05
	W. D. Griffith.....	"	3844	53 40
	W. Gill	"	3845	19 35
	H. George	"	3846	1 50
	F. D. Heckathorn.....	"	3847	2 25
	C. Hazlett	"	3848	3 75
	T. F. Hamilton.....	"	3849	5 25
	O. M. Johnson.....	"	3850	1 50
	J. C. Miron.....	"	3851	35 85
	E. L. McCrate.....	"	3852	3 00
	E. A. Norwood.....	"	3853	1 50
	E. C. Richey.....	"	3854	6 00
	R. S. Richards.....	"	3855	5 25
	N. L. Slate.....	"	3856	2 25
	L. M. Steckel.....	"	3857	5 10
	D. R. South.....	"	3858	3 00
	Am. Publishing Co.....	Letter heads	3859	5 75
	Artura Photo Paper Co....	50 doz. plates.....	3860	13 13
	Berlin Printing Co.....	Supplies	3861	36 25
	Blackwood, Green & Co....	Cans and still.....	3862	12 75
	Bowden Towel Supply Co....	Tow ls	3863	61 89
	H. Brown Sons & Co.....	Mdse.	3864	26 57
	Central Ohio Oil Co.....	Oil	3865	24 85
	Central Ohio Paper Co.....	Litho. and filing env.	3866	7 40
	Chumplin Printing Co.....	Postals, letter heads, blanks	3867	12 75
	Cols. Brass Co.....	Mdse.	3868	3 15
	Cols. Mdse. Co.....	Twine	3869	1 02

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. May 5	Cols. Mill and Mine Supply Co.	Clamps	3870	10 80
	Cols. Plate and Window Glass Co.	Glass	3871	28 25
	Cols. Steam Boiler and Heater Co.	Tubes	3872	54 30
	Cols. Supply Co.	Mdse.	3873	24 01
	Crystal Ice Mfg. Co.	Ice and water.	3874	98
	W. J. Davidson.	Straw and feed	3875	10 50
	Chas. H. Frank, Secy.	Rent of Sp. cart.	3876	6 00
	W. J. Hamilton Coal Co.	Coal	3877	5 73
	Hann & Adair.	Blanks	3878	3 80
	Fred J. Heer.	Bulletins and envelopes	3879	260 00
	Kauffman-Lattimer Co.	Assay balance, etc.	3880	228 40
	Kelton & Converse.	Lumber	3881	9 25
	Krauss, Butler & Benham Co.	Shades	3882	122 46
	Livingston Seed Co.	Mdse.	3883	21 05
	McAllister, Mohler & Co.	Cards, desk	3884	25 40
	McClelland & Co.	Mdse.	3885	2 44
	McDonald's Livery	Hack	3886	3 50
	Monypenny-Hammond Co.	Matches	3887	2 75
	New Franklin Prtg. Co.	Envelopes	3888	3 50
	Nischke Bros.	Supplies	3889	11 10
	Ohio Pump and Brass Co.	Couplings	3890	30 00
	O'Kane-Hull Co.	Marble	3891	3 25
	Orr Brown & Price.	Tubing	3892	5 37
	Chas. J. Palmer.	Mdse.	3893	42 40
	Payne, McDonald Hdwe. Co.	Mdse.	3894	19 78
	James Penn	Mdse.	3895	4 25
	Thos. Ross & Bros. Soap Co.	Soda ash	3896	27 57
	Spahr & Glenn.	Mdse.	3897	35 00
	Standish Mach. and Supply Co.	Mdse.	3898	42 17
	Sutton Bros.	Potatoes	3899	22 50
	Tallmadge Hdwe. Co.	Mdse.	3900	37 85
	Tracy-Wells Co.	Mdse.	3901	20 60
	Weinman Mach. Works.	Valves	3902	2 00
	Edhel S. Dean.	Labor	3903	17 25
	Smith-Lee Co.	Caps	3904	15 00
	H. C. Price, Mgr.	Oats	3905	21 00
	R. M. Rownd, P. M.	Envelopes	3906	21 60
	W. E. Mann.	May salary.	3907	83 33
	C. E. Steeb.	"	3908	125 00
6	Geo. R. Rose.	Money advanced	3909	7 50
	J. McLain Smith.	Expenses	3910	26 70
	W. D. Bee.	Return fees	3911	9 00
	R. L. Harding.	"	3912	8 00
	C. B. Rush.	"	3913	6 00
9	Ohio National Bank.	Bill of exchange.	3914	10 00
	H. C. Price, Mgr.	Oats	3915	29 00
	H. C. Price, Mgr.	Oats	3916	9 15
	Columbus Gas Co.	April gas	3917	198 30
	W. C. McMurehy.	Labor	3918	41 34
	A. M. McRary.	"	3919	2 55
	E. F. Lautz.	"	3920	11 10

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
May 9	N. E. Shaw.....	Labor	3921	31 12
	H. C. Thompson.....	"	3922	14 25
	O. M. Johnson.....	"	3923	1 50
11	R. M. Rownd, P. M.....	Stamps, 2,000 1c....	3924	20 00
	S. P. Ward.....	Labor	3925	15 90
	R. M. Rownd, P. M.....	Stamps, 500 2c	3926	6 00
	R. M. Rownd, P. M.....	Stamps, 2,500 1c....	3927	25 00
13	Geo. R. Rose.....	Money advanced	3928	8 25
16	Alexis Cope	Commission	3929	20 00
17	T. E. French.....	May salary	3930	150 00
	J. V. Denney.....	"	3931	250 00
18	J. F. Barker.....	Labor	3932	19 87
	J. H. Randall.....	"	3933	56 24
	J. A. Schneider.....	"	3934	56 63
20	Geo. H. McKnight.....	Books	3935	3 30
	John H. Hina.....	Est. No. 4, Mines bldg.	3936	4,719 03
	Shedd & Pembroke.....	Insurance	3937	34 00
	H. W. Riley.....	Labor and supplies..	3938	10 45
	John H. Hina.....	Extra No. 1 Min- ing bldg.	3939	333 98
22	G. W. Knight.....	May salary	3940	250 00
	West. Union Tel. Co.....	Service	3941	1 46
26	W. O. Thompson.....	May salary.....	3942	416 67
24	K. H. Duncan.....	"	3943	75 00
26	E. D. Cockins.....	"	3944	75 00
	Bess C. Watters.....	"	3945	60 00
	M. F. Hines.....	"	3946	40 00
	Lucy M. Taylor.....	"	3947	40 00
	Wm. C. McCracken.....	"	3948	150 00
	Wm. Standley.....	"	3949	65 00
	W. H. Case.....	"	3950	55 00
	Thos. Boude	"	3951	50 00
	Benj. Le Bay.....	"	3952	55 00
	Samuel Lowery	"	3953	50 00
	Roy Pratt	"	3954	50 00
	Marion Peck	"	3955	45 00
	Geo. R. Rose.....	"	3956	75 00
	Harry Osborne	"	3757	25 00
	Chas. Lewis	"	3958	20 00
	R. H. Nesbitt.....	"	3959	20 00
	Chas. Hicks	"	3960	45 00
	Jos. Black	"	3961	25 00
	G. A. Goodspeed.....	"	3962	40 00
	W. M. Stahl.....	"	3963	40 00
	W. R. Thomas.....	"	3964	40 00
	R. Brandon	"	3965	40 00
	Wm. Whitestein	"	3966	40 00
	Harry Chantler	"	3967	40 00
	F. Andrix	"	3968	30 00
	G. C. Derry.....	"	3969	40 00
	M. N. Cook.....	"	3970	40 00
	A. Rudell	"	3971	40 00
	W. E. Cook.....	"	3972	40 00
	J. W. Brown.....	"	3973	40 00
	H. M. Templin.....	"	3974	40 00
	Earl Conway	"	3975	40 00
	H. H. Hamilton.....	"	3976	12 50

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. May 26	C. H. Bushfield.....	May salary	3977	12 50-
	D. R. Walker.....	"	3978	18 00
	W. F. Martin.....	"	3979	20 00
	A. B. Probert.....	"	3980	45 00
	John Ricketts	"	3981	45 00
	Jas. Kelley	"	3982	30 00
	M. S. Harvey.....	"	3983	25 00
	C. H. Woodruff.....	"	3984	70 00
	J. P. Covan.....	"	3985	83 33
	A. F. Hall.....	"	3986	73 33
	H. C. Price.....	"	3987	225 00
	J. W. Decker.....	"	3988	170 00
	C. S. Plumb.....	"	3989	200 00
	A. G. McCall.....	"	3990	140 00
	Alex Argo	"	3991	60 00
	E. F. Mangold.....	"	3992	60 00
	Laurel Hill	"	3993	40 00
	John Chisholm	"	3994	60 00
	H. A. Weber.....	"	3995	225 00
	A. Vivian	"	3996	150 00
	R. Hirsch	"	3997	60 00
	A. H. Tuttle.....	"	3998	140 00
	H. R. Spencer.....	"	3999	110 00
	A. M. Bleile.....	"	4000	225 00
	M. Dresbach	"	4001	80 00
	R. J. Seymour.....	"	4002	30 00
	J. A. Beer.....	"	4003	30 00
	W. C. Mills.....	"	4004	40 00
	J. N. Bradford.....	"	4005	210 00
	T. K. Lewis.....	"	4006	120 00
	Silas Martin	"	4007	100 00
	J. H. Vosskuehler.....	"	4008	120 00
	J. S. Tidball.....	"	4009	80 00
	S. B. Williams.....	"	4010	30 00
	R. Rogers	"	4011	80 00
	H. C. Lord	"	4012	225 00
	B. F. Maag.....	"	4013	100 00
	C. B. Morrey.....	"	4014	160 00
	W. A. Kellerman.....	"	4015	225 00
	J. H. Schaffner.....	"	4016	130 00
	H. H. York.....	"	4017	50 00
	H. A. Gleason.....	"	4018	30 00
	Jas. McOwen	"	4019	40 00
	Caroline Carmack	"	4020	30 00
	S. A. Norton.....	"	4021	125 00
	Wm. McPherson	"	4022	225 00
	W. E. Henderson.....	"	4023	160 00
	C. W. Foulk.....	"	4024	140 00
	H. R. Watkins.....	"	4025	60 00
	C. E. Andrews.....	"	4026	80 00
	C. G. Stewart.....	"	4027	60 00
	C. C. Vogt.....	"	4028	30 00
	J. M. Knot.....	"	4029	30 00
	C. E. Sherman.....	"	4030	180 00
	A. H. Heller.....	"	4031	180 00
	F. H. Ero.....	"	4032	150 00
	H. D. Bruning.....	"	4033	125 00
	Edw. Orton, Jr.....	"	4034	200 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. May 26	A. V. Bleininger.....	May salary	4035	100 00
	R. C. Purdy.....	"	4036	50 00
	H. F. Staley.....	"	4037	20 00
	Metta Seymour	"	4038	10 00
	M. A. Stoner.....	"	4039	180 00
	May Secrest	"	4040	120 00
	Cora Elliott	"	4041	25 00
	J. E. Hagerty.....	"	4042	160 00
	M. B. Hammond.....	"	4043	120 00
	D. R. Major.....	"	4044	160 00
	W. W. Boyd.....	"	4045	200 00
	T. H. Haines.....	"	4046	130 00
	F. C. Caldwell.....	"	4047	190 00
	J. S. Riddle.....	"	4048	30 00
	Helen Lambdin	"	4049	30 00
	A. C. Barrows.....	"	4050	225 00
24	J. R. Taylor.....	"	4051	150 00
26	W. L. Graves.....	"	4052	130 00
	G. H. McKnight.....	"	4053	130 00
	Mary Malloy	"	4054	30 00
	Mina Weaver	"	4055	30 00
	Gertrude Jackson	"	4056	30 00
	W. H. Siebert	"	4057	180 00
	E. H. McNeal.....	"	4058	100 00
	C. S. Prosser.....	"	4059	190 00
	J. A. Bownocker.....	"	4060	160 00
	L. A. Rhoades.....	"	4061	225 00
	Geo. B. Viles.....	"	4062	120 00
	B. A. Eisenlohr.....	"	4063	80 00
	J. R. Smith.....	"	4064	225 00
	A. W. Hodgman.....	"	4065	160 00
	W. S. Elden.....	"	4066	160 00
	W. R. Lazenby.....	"	4067	225 00
	V. H. Davis.....	"	4068	83 33
	F. E. Sanborn.....	"	4069	200 00
	W. A. Knight.....	"	4070	120 00
	W. H. Rensch.....	"	4071	120 00
	C. P. Crowe.....	"	4072	120 00
	All Case	"	4073	70 00
	C. M. Beem.....	"	4074	60 00
	S. C. Derby.....	"	4075	225 00
	J. H. Outhwaite.....	"	4076	250 00
	W. H. Page.....	"	4077	200 00
	E. B. Kinkead.....	"	4078	130 00
	J. A. Shauck.....	"	4079	100 00
	E. O. Randall.....	"	4080	80 00
	G. H. Stewart.....	"	4081	50 00
	Harriet Schneider	"	4082	40 00
	Olive Jones	"	4083	145 00
	H. Townshend	"	4084	60 00
	Gertrude Kellicott	"	4085	80 00
	Maude Jeffrey	"	4086	80 00
	Martha Hartford	"	4087	50 00
	Max Morton.....	"	4088	30 00
	Elizabeth Smythe	"	4089	40 00
	R. D. Bohannon	"	4090	225 00
	G. W. McCoard.....	"	4091	160 00
	J. E. Boyd.....	"	4092	150 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
May 26	C. L. Arnold.....	May salary	4093	130 00
	K. D. Swartzel.....	"	4094	150 00
	H. W. Kuhn.....	"	4095	110 00
	S. E. Rasor.....	"	4096	100 00
	E. F. Coddington.....	"	4097	110 00
	W. T. Magruder.....	"	4098	225 00
	E. A. Hitchcock.....	"	4099	175 00
	Horace Judd	"	4100	120 00
	N. W. Lord.....	"	4101	200 00
	D. J. Demorest.....	"	4102	80 00
	Gustav Bruder	"	4103	20 00
	F. A. Ray.....	"	4104	200 00
	T. B. Simon.....	"	4105	30 00
	G. B. Kauffman.....	"	4106	200 00
	C. A. Dye.....	"	4107	110 00
	W. H. Scott.....	"	4108	225 00
	A. E. Davies.....	"	4109	90 00
	D. C. Huddleson.....	"	4110	100 00
	Maude Martin	"	4111	80 00
	F. G. Paterson.....	"	4112	7 50
	Lily Weeks	"	4113	27 00
	B. F. Thomas.....	"	4114	225 00
	A. D. Cole.....	"	4115	200 00
	R. F. Earhart.....	"	4116	120 00
	H. D. Ayers.....	"	4117	80 00
	B. L. Bowen.....	"	4118	225 00
	C. A. Bruce.....	"	4119	150 00
	E. S. Ingraham.....	"	4120	120 00
	Mary James	"	4121	30 00
	Rosalie James	"	4122	30 00
	D. S. White.....	"	4123	200 00
	S. Sisson.....	"	4124	170 00
	D. H. Udall.....	"	4125	145 00
	O. V. Brumley.....	"	4126	170 00
	J. McI. Phillips.....	"	4127	100 00
	C. F. Payne.....	"	4128	15 00
	Herbert Osborn	"	4129	225 00
	J. S. Hine.....	"	4130	120 00
	F. L. Landacre.....	"	4131	120 00
	F. M. Surface.....	"	4132	25 00
	Annie Smead	"	4133	30 00
	R. M. Royer.....	"	4134	70 00
	L. W. Funk.....	"	4135	60 00
	A. Ribot	"	4136	32 63
	E. B. Dillon.....	"	4137	50 00
	I. M. Butler.....	"	4138	25 00
	G. W. Rightmire.....	"	4139	100 00
	Wade Ellis	"	4140	80 00
	I. E. Beal.....	"	4141	30 00
	R. O. Busey.....	"	4142	30 00
	Alice Smith	"	4143	28 00
	J. R. Chamberlain.....	"	4144	100 00
	A. Coggeshall	"	4145	110 00
	A. B. Coover.....	"	4146	10 00
	Frank L. Packard.....	Arch. fees	4147	126 32
	Carl W. Gray.....	May salary.....	4148	120 00
25	R. M. Rownd. P. M.....	Stamps. 4000 lc.....	4149	40 00
26	Sherman Wolfe	Labor	4150	50 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
May 29	T. B. Simon.....	Expenses	4151	22 45
	J. L. Mott Iron Works.....	Tubes	4152	36 00
	Cent. Union Telephone Co..	Ex. service	4153	2 50
June 1	Mary James	June salary.....	4154	30 00
	Rosalie James	"	4155	30 00
	Hayden-Clinton Natl. Bank.	6 mo. int. on \$10,000 and \$115,000	4156	2,887 50
	Hayden-Clinton Natl. Bank.	Bonds 101-110	4157	10,000 00
	Ohio National Bank.....	6 mo. int on \$80,000 refund	4158	1,800 00
	Ida M. Fisher.....	Services	4159	28 25
2	R. M. Rownd, P. M.....	Stamps	4160	2 00
3	Wm. Gill	Labor	4161	16 35
	R. P. Marsteller.....	Clinic fees	4162	62 23
	R. P. Marsteller.....	Expenses	4163	4 75
	John Marling	Labor	4164	9 00
	C. C. Rose.....	Return fee for Baf. bond	4165	18 00
	R. M. Rownd, P. M.....	Stamps, 4000 1c.....	4166	40 00
	The Shaw-Walker Co.....	Desk tray	4167	2 45
	W. C. McMurchy.....	Labor	4168	41 33
	W. W. Hackney.....	Return fees	4169	18 00
5	J. H. Roberts.....	Labor	4170	17 50
	D. L. Hurst.....	"	4171	18 00
	J. H. Kindle.....	Return fees	4172	18 00
	H. R. Scott.....	Hauling water	4173	15 00
6	Raymond Murphy	Labor	4174	3 15
	R. H. Minns.....	Return fees	4175	18 00
	H. H. Ewing.....	"	4176	12 00
	Jas. Morrison	"	4177	18 00
7	C. Ashenhurst	Labor	4178	52 80
	A. Bolenbaugh	"	4179	16 80
	B. L. Bowen.....	Expenses	4180	15 70
	Helen E. Burgess.....	Labor	4181	3 90
	Marie G. Clark.....	Music	4182	4 00
	Shreve Clark	Labor	4183	7 65
	A. B. Clements.....	"	4184	27 30
	E. L. Clements.....	"	4185	35 85
	F. D. Cockins.....	"	4186	15 20
	H. W. Conrad.....	"	4187	16 38
	H. F. Dyche.....	"	4188	13 28
	A. O. Crites.....	"	4189	2 25
	T. C. Davis.....	"	4190	10 40
	W. J. Davis.....	"	4191	1 50
	W. O. Dean.....	"	4192	1 25
	J. L. Downing.....	"	4193	11 60
	C. S. Fisher.....	"	4194	9 00
	R. Gaver	"	4195	10 05
	E. Gough	"	4196	54 40
	W. A. Grace.....	"	4197	6 35
	F. G. Green.....	"	4198	84 87
	W. D. Griffith.....	"	4199	58 80
	W. W. Hackney.....	"	4200	7 38
	J. E. Hagerty.....	Expenses	4201	2 00
	T. F. Hamilton.....	Labor	4202	3 75
	F. O. Hauge.....	"	4203	17 50
	J. M. Harsh.....	"	4204	12 65
	F. Heckathorn	"	4205	45

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. June 7	True Houser	Labor	4206	3 45
	Lilian Huffman	"	4207	17 50
	Chas H. Kerr	"	4208	7 00
	J. E. Kewley	"	4209	10 55
	Jas. Kindle	"	4210	5 00
	H. J. Lucas	"	4211	3 15
	E. L. Mahaffy	"	4212	7 50
	Maude W. Martin	Supplies	4213	1 25
	S. J. Mauchley	Labor	4214	1 58
	C. McClintock	"	4215	18 75
	A. H. McCrary	"	4216	3 30
	E. L. McCrate	"	4217	45
	Florence Metcalf	"	4218	5 75
	J. C. Miron	"	4219	39 45
	F. A. Moore	"	4220	13 65
	Fay Neil	"	4221	8 55
	W. H. Palmer	"	4222	1 00
	M. Peck	"	4223	9 90
	J. McL. Phillips	Supplies	4224	26 50
	A. B. Piper	Labor	4225	3 56
	I. G. Priest	"	4226	15 89
	T. S. Rataiczah	"	4227	7 61
	C. W. Reeder	"	4228	9 10
	C. G. Salt	"	4229	5 70
	J. I. Sample	"	4230	1 80
	May Secrest	Supplies	4231	1 25
	H. A. Seabright	Labor	4232	24 87
	R. M. Sellers	"	4233	1 25
	E. F. Shade	"	4234	12 47
	N. E. Shaw	"	4235	32 64
	L. M. Smith	"	4236	60
	F. W. Sperr	"	4237	3 45
	C. E. Steeb	Expenses	4238	4 05
	H. E. Surface	Labor	4239	13 40
	B. F. Thomas	Supplies	4240	16 82
	H. C. Thompson	Labor	4241	10 73
	D. H. Udall	Repairs	4242	5 00
	E. D. Waid	Labor	4243	22 00
	Geo. Washburn	"	4244	9 48
	H. G. Weinland	"	4245	18 85
	L. Wolfe	"	4246	9 60
	J. V. Denney	June salary	4247	250 00
	C. E. Sherman	Supplies	4248	7 05
	R. P. Marsteller	"	4249	9 10
	H. H. Hamilton	Refund fees	4250	18 00
8	Maude W. Martin	June salary	4251	80 00
	Sadie Miller	Refund fees	4252	9 00
9	A. Coggeshall	June salary	4253	110 00
	C. C. Vogt	"	4254	30 00
	A. H. Dallison	Refund fees	4255	18 00
	S. E. Rasor	June salary	4256	100 00
	A. A. Straub	Refund fees	4257	18 00
	W. R. Work	Labor	4258	7 00
	J. A. Schneider	"	4259	72 00
10	H. J. Lucas	"	4260	2 25
	Fay Neil	"	4261	6 30
	F. W. Sperr	"	4262	2 70
	Nichol & Carr	Est. No. 5	4263	6,369 50

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905.				
June 10	Nichol & Carr.....	Extra Est. No. 3....	4264	115 43
	W. O. Thompson.....	June salary.....	4265	416 63
12	C. E. Steeb.....	".....	4266	125 00
	K. H. Duncan.....	".....	4267	75 00
	E. D. Cockins.....	".....	4268	75 00
	Bess C. Watters.....	".....	4269	60 00
	Alta Rausch.....	".....	4270	40 00
10	W. E. Mann.....	".....	4271	83 38
12	Lucy M. Taylor.....	".....	4272	40 00
	W. C. McCracken.....	".....	4273	150 00
	Wm. Standley.....	".....	4274	65 00
	W. H. Case.....	".....	4275	55 00
	Thos. Boude.....	".....	4276	50 00
	Benj. Le Bay.....	".....	4277	55 00
	M. Peck.....	".....	4278	45 00
	Geo. Rose.....	".....	4279	75 00
	Harry Osborne.....	".....	4280	25 00
	Chas. Lewis.....	".....	4281	10 00
	R. H. Nesbitt.....	".....	4282	10 00
	Chas. Hicks.....	".....	4283	45 00
	Jos. Black.....	".....	4284	25 00
	G. A. Goodspeed.....	".....	4285	40 00
	W. M. Stahl.....	".....	4286	40 00
	W. R. Thomas.....	".....	4287	40 00
	R. Brandon.....	".....	4288	20 00
	Wm. Whitestein.....	".....	4289	40 00
	Harry Chantler.....	".....	4290	40 00
	F. Andrix.....	".....	4291	30 00
	G. C. Denny.....	".....	4292	40 00
	M. N. Cook.....	".....	4293	40 00
	A. Rudell.....	".....	4294	40 00
	W. E. Cook.....	".....	4295	40 00
	J. W. Brown.....	".....	4296	40 00
	Earl Conway.....	".....	4297	40 00
	F. Fleischer.....	".....	4298	40 00
	H. H. Hamilton.....	".....	4299	12 50
	C. H. Bushfield.....	".....	4300	12 50
27	D. R. Walker.....	".....	4301	14 85
12	W. F. Martin.....	".....	4302	20 00
	A. B. Probert.....	".....	4303	45 00
	John Ricketts.....	".....	4304	45 00
	Jas. Kelley.....	".....	4305	30 00
	M. S. Harvey.....	".....	4306	25 00
	C. H. Woodruff.....	".....	4307	70 00
	J. P. Covan.....	".....	4308	83 37
	A. F. Hall.....	".....	4309	73 37
	H. C. Price.....	".....	4310	225 00
	J. W. Decker.....	".....	4311	170 00
	C. S. Plumb.....	".....	4312	200 00
	A. G. McCall.....	".....	4313	140 00
	Alex Argo.....	".....	4314	60 00
	E. F. Mangold.....	".....	4315	60 00
	Laurel Hill.....	".....	4316	40 00
	John Chisholm.....	".....	4317	60 00
	H. A. Weber.....	".....	4318	225 00
	A. Vivian.....	".....	4319	150 00
	R. Hirsch.....	".....	4320	60 00
	G. W. Knight.....	".....	4321	250 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. June 12	A. H. Tuttle.....	June salary.....	4322	140 00
	H. R. Spencer.....	".....	4323	110 00
	A. M. Bleile.....	".....	4324	225 00
	M. Dresbach.....	".....	4325	80 00
	R. J. Seymour.....	".....	4326	30 00
	J. A. Beer.....	".....	4327	30 00
	W. C. Mills.....	".....	4328	40 00
	J. N. Bradford.....	".....	4329	210 00
	T. E. French.....	".....	4330	150 00
	T. K. Lewis.....	".....	4331	120 00
	Silas Martin.....	".....	4332	100 00
	J. H. Vosskuehler.....	".....	4333	120 00
	J. S. Tidball.....	".....	4334	80 00
	S. B. Williams.....	".....	4335	30 00
	R. Rogers.....	".....	4336	80 00
	H. C. Lord.....	".....	4337	225 00
	J. W. Smith.....	".....	4338	100 00
	B. F. Maag.....	".....	4339	100 00
	C. B. Morrey.....	".....	4340	160 00
	W. A. Kellerman.....	".....	4341	225 00
	J. H. Schaffner.....	".....	4342	130 00
	H. H. York.....	".....	4343	50 00
	H. A. Gleason.....	".....	4344	30 00
	Jas. McOwen.....	".....	4345	40 00
	Caroline Carmack.....	".....	4346	30 00
	S. A. Norton.....	".....	4347	125 00
	Wm. McPherson.....	".....	4348	225 00
	W. E. Henderson.....	".....	4349	160 00
	C. W. Foulk.....	".....	4350	140 00
	H. R. Watkins.....	".....	4351	60 00
	C. E. Andrews.....	".....	4352	80 00
	C. G. Stewart.....	".....	4353	60 00
	J. M. Knote.....	".....	4354	30 00
	C. E. Sherman.....	".....	4355	180 00
	A. H. Heller.....	".....	4356	180 00
	F. H. Eno.....	".....	4357	150 00
	H. D. Bruning.....	".....	4358	125 00
	Edw. Orton, Jr.....	".....	4359	200 00
	A. V. Bleiningner.....	".....	4360	100 00
	R. C. Purdy.....	".....	4361	50 00
	H. F. Staley.....	".....	4362	20 00
	M. Seymour.....	".....	4363	10 00
	M. A. Stoner.....	".....	4364	180 00
	May Secrest.....	".....	4365	120 00
	Cora Elliott.....	".....	4366	25 00
	J. E. Hagerty.....	".....	4367	160 00
	M. B. Hammond.....	".....	4368	120 00
	D. R. Major.....	".....	4369	160 00
	W. W. Boyd.....	".....	4370	200 00
	T. H. Haines.....	".....	4371	130 00
	F. C. Caldwell.....	".....	4372	190 00
	J. S. Riddle.....	".....	4373	30 00
	Helen Lambdin.....	".....	4374	30 00
	A. C. Barrows.....	".....	4375	225 00
	J. R. Taylor.....	".....	4376	150 00
	W. I. Graves.....	".....	4377	130 00
	G. H. McKnight.....	".....	4378	130 00
	Mary Malloy.....	".....	4379	30 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. June 12	Mina Weaver	June salary	4380	30 00
	Gertrude Jackson	"	4381	30 00
	W. H. Siebert	"	4382	180 00
	E. H. McNeal	"	4383	100 00
	C. S. Prosser	"	4384	190 00
	J. A. Bownocker	"	4385	160 00
	L. A. Rhoades	"	4386	225 00
	G. B. Viles	"	4387	120 00
	B. A. Eisenlohr	"	4388	80 00
	J. R. Smith	"	4389	225 00
	A. W. Hodgman	"	4390	160 00
	W. S. Elden	"	4391	160 00
	W. R. Lazenby	"	4392	225 00
	V. H. Davis	"	4393	83 37
	F. E. Sanborn	"	4394	200 00
	W. A. Knight	"	4395	120 00
	W. H. Rench	"	4396	120 00
	A. P. Crowe	"	4397	120 00
	All. Case	"	4398	70 00
	C. M. Beem	"	4399	60 00
	S. C. Derby	"	4400	225 00
	J. H. Outhwaite	"	4401	250 00
	W. H. Page	"	4402	200 00
	E. B. Kinkead	"	4403	130 00
	J. A. Shauck	"	4404	100 00
	E. O. Randall	"	4405	80 00
	G. H. Stewart	"	4406	50 00
	Harriet Schneider	"	4407	40 00
	Olive Jones	"	4408	145 00
	H. Townshend	"	4409	60 00
	Gertrude Kellicott	"	4410	80 00
	Maude Jeffrey	"	4411	80 00
	Martha Hartford	"	4412	50 00
	Max Morton	"	4413	30 00
	Eliabeth Smythe	"	4414	40 00
	R. D. Bohannon	"	4415	225 00
	G. W. McCoard	"	4416	160 00
	J. E. Boyd	"	4417	150 00
	C. L. Arnold	"	4418	130 00
	K. D. Swartzel	"	4419	150 00
	H. W. Kuhn	"	4420	110 00
	E. F. Coddington	"	4421	110 00
	W. T. Magruder	"	4422	225 00
	E. A. Hitchcock	"	4423	175 00
	Horace Judd	"	4424	120 00
	N. W. Lord	"	4425	200 00
	D. J. Demorest	"	4426	80 00
	Gustav Bruder	"	4427	20 00
	F. A. Ray	"	4428	200 00
	T. B. Simon	"	4429	30 00
	G. B. Kauffman	"	4430	200 00
	C. A. Dye	"	4431	110 00
	W. H. Scott	"	4432	225 00
	A. E. Davies	"	4433	90 00
	D. C. Huddleson	"	4434	100 00
	F. G. Paterson	"	4435	7 50
	Lily Weeks	"	4436	25 00
	B. F. Thomas	"	4437	225 00

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
June 12	A. D. Cole.....	June salary.....	4438	200 00
	R. F. Earhart.....	".....	4439	120 00
	H. D. Ayers.....	".....	4440	80 00
	B. L. Bowen.....	".....	4441	225 00
	C. A. Bruce.....	".....	4442	150 00
	E. S. Ingraham.....	".....	4443	120 00
	D. S. White.....	".....	4444	200 00
	S. Sisson.....	".....	4445	170 00
	D. H. Udall.....	".....	4446	145 00
	O. V. Brumley.....	".....	4447	170 00
	J. McL. Phillips.....	".....	4448	100 00
	C. F. Payne.....	".....	4449	15 00
	Herbert Osborn.....	".....	4450	225 00
	J. S. Hine.....	".....	4451	120 00
	F. L. Landacre.....	".....	4452	120 00
	F. M. Surface.....	".....	4453	25 00
	Annie Smead.....	".....	4454	30 00
	R. M. Royer.....	".....	4455	70 00
	L. W. Funk.....	".....	4456	60 00
	A. Ribot.....	".....	4457	32 63
	E. R. Dillon.....	".....	4458	50 00
	J. M. Butler.....	".....	4459	25 00
	G. W. Rightmire.....	".....	4460	100 00
	Wade Ellis.....	".....	4461	80 00
	J. E. Real.....	".....	4462	30 00
	R. O. Busey.....	".....	4463	30 00
	Alice Smith.....	".....	4464	28 00
	J. R. Chamberlain.....	".....	4465	100 00
	Carl W. Gay.....	".....	4466	120 00
	A. B. Coover.....	".....	4467	10 00
	J. N. Bradford.....	Negatives.....	4468	3 00
	D. H. Udall.....	Supplies.....	4469	5 60
	I. H. Vosskuehler.....	Drawings.....	4470	5 75
	S. B. Williams.....	Prints.....	4471	14 40
	S. P. Ward.....	Labor.....	4472	21 45
	S. G. Zemer.....	Clerical work.....	4473	5 00
	A. B. Piper.....	".....	4474	5 00
	C. H. Kerr.....	Labor.....	4475	2 45
	F. E. Bentler.....	".....	4476	4 00
	B. C. Davies.....	".....	4477	3 75
13	C. E. Sherman.....	Summer School of Eng. to Yellow- stone Park.....	4478	375 00
	C. E. Sherman.....	Fees Summer School.....	4479	186 00
	J. M. Harsh.....	Labor.....	4480	5 55
	H. W. Riley.....	".....	4481	2 30
	H. R. Scott.....	".....	4482	22 50
	H. R. Scott.....	".....	4483	1 35
	T. H. Haines.....	Supplies.....	4484	3 90
14	Wm. McPherson.....	".....	4485	3 25
15	E. F. Shade.....	Labor.....	4486	7 60
	W. E. Mann.....	Notary fees.....	4487	3 50
	H. Judd.....	Testing oil.....	4488	4 50
	John H. McManus.....	Labor.....	4489	2 60
16	John L. Downing.....	".....	4490	4 75
	Jos. R. Kindle.....	".....	4491	10 50
	A. R. Moist.....	Board for Cooley and Andrews.....	4492	18 40
17	T. F. Rataiczak.....	Labor.....	4493	6 26

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. June 17	A. B. Welty.....	Labor	4494	13 25
	Chester McClintock	"	4495	13 35
	W. C. McCracken.....	Supplies	4496	61 20
	E. C. Richey.....	Labor	4497	6 00
	R. P. Marsteller.....	Supplies	4498	2 05
	R. P. Marsteller.....	Vet. clinic fees.....	4499	32 62
	R. M. Rownd, P. M.....	500 envelopes	4500	10 70
	W. O. Thompson.....	Services of E. L. Powell	4501	100 00
	H. E. Surface.....	Labor	4502	16 60
19	Thos. C. Davis.....	"	4503	5 20
	Jos. E. Kewley.....	"	4504	5 30
	W. E. Mann.....	Notary fees, auditing.	4505	5 75
	W. W. Boyd.....	Expenses	4506	53 60
	Edw. Orton, Jr.....	"	4507	12 46
	J. S. Riddle.....	Add. salary	4508	20 00
	B. F. Thomas.....	Expenses	4509	33 61
	W. O. Thompson.....	"	4510	7 59
	A. R. Barrington.....	Music	4511	35 00
20	R. L. Shields.....	Labor	4512	3 75
	Peter J. Kraye.....	"	4513	10 00
	Alexis Cope.....	Commission	4514	221 97
21	H. E. Dyche.....	Labor	4515	8 10
	W. W. Hackney.....	"	4516	1 75
	C. S. Fisher.....	"	4517	14 40
	E. L. Mahaffey.....	"	4518	9 50
22	Peter J. Kraye.....	Repairing	4519	15 00
	Chas. S. Fisher.....	Labor	4520	1 00
	W. E. Mann, Acct.....	Com. Address by A. W. Small, Ph. D..	4521	100 00
	D. W. McGrath.....	Final est. on Physics bldg	4522	3,530 75
23	The American Architect.....	Advertising	4523	18 63
	Amer. Concentrator Co.....	Crushing rolls	4524	65 00
	Amer. Electrochemical So- ciety	Vol. 51 Trans.....	4525	2 00
	W. H. Anderson Co.....	Books	4526	48 25
	R. P. Marsteller.....	Vet. clinic fees.....	4527	19 60
	R. Brandon.....	Labor	4528	6 00
	Baker & Adamson Chem. Co.	Sod. carb	4529	2 60
	Jas. G. Biddle.....	Spectrometer	4530	54 60
	Emil Borgmann.....	Books	4531	73 00
	Boston Book Co.....	"	4532	14 58
	R. R. Bowker.....	Eng. Cat. 04.....	4533	1 62
	Burrows Bros. Co.....	Books	4534	42 54
	Central Ohio Fence Co.....	Resetting fence	4535	35 75
	Arthur H. Clark Co.....	Early West Travels.	4536	60 00
	E. T. Cresson, Treas.....	Vol. 29 and 30 Trans.	4537	8 00
	Crosby Steam Gage and Valve Co.....	Repairing	4538	23 50
	Dennison Mfg. Co.....	Linen	4539	2 02
	Dodd, Mead & Co.....	Bacon's Essay	4540	1 00
	B. F. Drackenfeld & Co.....	Merchandise	4541	5 81
	Eimer & Amend.....	"	4542	10 68
	Engineering and Mining Journal	Advertising	4543	16 58
	C. H. Evans & Co.....	"	4544	5 00
	Foot Mineral Co.....	Minerals	4545	8 95

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. June 23	Golding & Sons Co.....	Merchandise	4546	2 53
	E. D. Griswold, Secy.....	Year Book '04.....	4547	3 00
	Peter Henderson & Co.....	Repairing mower	4548	20 50
	B. Herder	Jansen test	4549	13 20
	L. O. Howard, Secy.....	Annual dues	4550	8 00
	Edwin E. Howell.....	Niagara Falls map..	4551	125 00
	Imperial Porcelain Works..	Covers	4552	3 25
	H. W. Johns-Manville Co..	Merchandise	4553	6 00
	Knauth, Nachod & Kuhne..	Books	4554	2 60
	The Laning Co.....	Book and adv.....	4555	28 50
	McKinley Pub. Co.....	500 maps	4556	2 86
	Merek & Co.....	3 lb. Pyro.....	4557	3 96
	Metric Metal Works.....	3 dianh	4558	5 25
	Orient Mfg. Co.....	Merchandise	4559	27 50
	The Palmer Co.....	Education, 1 yr.....	4560	3 00
	T. A. Randall & Co.....	Adv., 1 yr	4561	36 00
	W. P. Rogers, Sec & Treas.	Dues	4562	10 00
	Roseville Pottery Co.....	Merchandise	4563	8 35
	Scioto Lime and Stone Co..	Lime	4564	15 00
	Smithsonian Institute	Mechanics	4565	2 45
	Star Milk Cooler Co.....	Bottles	4566	33 55
	G. E. Stechert & Co.....	Books	4567	571 54
	Strobridge Lithograph Co..	Coms	4568	17 50
	Arthur H. Thomas Co.....	Blood app., arterio- graph	4569	37 64
	Edw. Thompson Co.....	Am. Ency., Vol. 30..	4570	6 00
	Webb Sta. and Prtg. Co.....	Merchandise	4571	3 20
	Western Tool and Mfg. Co.	Tools	4572	79 38
	Western Elect. Inst. Co....	Repairing	4573	4 60
	C. L. Whittle.....	Saw	4574	11 10
	Westinghouse Electric and Mfg. Co.	Auto. starter, "C" motor	4575	227 41
	H. G. Williams.....	Advertising	4576	12 00
24	Sherman Wolfe	Labor	4577	50 00
	American Pub. Co.....	Job No. 5679.....	4578	17 00
	Blackwood, Green & Co....	Supplies	4579	21 97
	Bowden Towel Supply Co..	"	4580	70 00
	H. Braun Son & Co.....	Merchandise	4581	46 45
	Bucher Engr. and Mfg. Co..	Etchings	4582	3 01
	Buckeye Brass Foundry....	Merchandise	4583	2 13
	Buckeye Steel Castings Co..	Clutches	4584	3 52
	Central Ohio Paper Co.....	Paper	4585	6 42
	Champlin Printing Co.....	Supplies	4586	109 90
	Cherington Prtg. and Engr. Co.	Seal press	4587	9 00
	Citizens Ice Co.....	Books	4588	17 00
	H. Cole Co.....	Paper	4589	1 00
	Columbus Gas Co.....	Coke, May gas.....	4590	218 60
23	S. A. Stedman.....	Commission	4591	5 00
	W. H. Page.....	Lectures	4592	250 00
24	Columbus Mdse. Co.....	Merchandise	4593	9 35
	Cols. Mill and Mine Supply Co.	"	4594	28 21
	Cols. Photo Supply Co.....	Plates	4595	21 48
	Cols. Sewer Pipe Co.....	Merchandise	4596	3 43
	Cols. Sporting Goods Co....	Hand balls	4597	2 50
	Cols. Supply Co.....	Merchandise	4598	64 82

STATEMENT No. II — Continued.

Date.	To Whom Paid.	For What Purpose.	Vo. No.	Amount.
1905. June 24	Cols. Tool and Supply Co....	Tools	4599	4 25
	Courier Pub. Co.....	Advertising	4600	10 00
	Geo. D. Cross Lumber Co..	Lumber	4601	8 11
	J. G. DeGruchy.....	Repairing lawn mow- ers	4602	2 50
	E. Doddington & Co.....	Lumber	4603	84 25
	Eldridge & Higgins Co....	Mdse.	4604	5 50
	Elliott & Harris.....	Mdse.	4605	7 28
	Engelke & Bigelow.....	April bills	4606	71 90
	Engelke & Bigelow.....	May bills	4607	16 86
	Erner-Hopkins Co.	Mdse.	4608	22 08
	A. G. Geren.....	Mdse.	4609	1 85
	Henry Goldsmith	Band music	4610	1 60
	Green-Joyce Co.	Towels	4611	87 50
	Griswold-Sohl Co.	Iron	4612	5 32
	W. J. Hamilton Coal Co....	Coal	4613	3 09
	Hann & Adair.....	Supplies	4614	19 40
	Hanna Paint Mfg. Co.....	Lead	4615	14 00
	C. C. Hatfield.....	Advertising	4616	7 00
	P. Hayden Sadly Hdwe. Co.	Grate bars	4617	11 55
	J. C. Hearn Mach. Works..	Repairs	4618	3 00
	H. K. Hill.....	April and May bills..	4619	44 87
	F. G. & A. Howald.....	Table and desks....	4620	25 00
	O. C. Ingalls, Mgr.....	Adv. Makio	4621	50 00
	Jeffrey Mfg. Co.....	Orders	4622	2 79
	C. W. Johnson.....	Repairing	4623	2 35
26	Johnson Coal Mining Co....	April and May coal..	4624	1,828 28
24	Wise & Kast.....	Well	4625	108 00
	Kauffman-Lattimer Co....	Mdse.	4626	49 71
	Kelton & Converse.....	Lumber	4627	12 31
	Krauss, Butler & Benham Co.....	8 shades	4628	155 13
	Geo. H. Morse, Mgr.....	Adv.	4629	50 00
	M. C. Lilley & Co.....	Sabers, etc.	4630	51 60
	Livingston Seed Co.....	Seed	4631	6 30
	McAllister, Mohler & Co..	Desks and mdse.	4632	241 93
	McClelland & Co.....	Mdse.	4633	3 95
	McDonald & Steube.....	"	4634	3 00
	D. W. McGrath.....	"	4635	24 10
	Nitschke Bros.....	"	4636	42 61
	Peter I. Krayner.....	Repairing	4637	12 00
	Orr, Brown & Price.....	Mdse.	4638	17 05
	Payne, McDonald Hdwe. Co.	"	4639	62 76
	F. B. Pearson.....	Adv.	4640	22 50
	Jas. Penn.....	Magruder	4641	2 00
	Ben D. Potts.....	Mdse.	4642	92
	Pure Milk Co.....	Cream, butter	4643	5 54
	Mrs. Reichardt	Room rent	4644	10 78
	Thos. Ross Soap Co.....	Soft ash	4645	27 57
	E. H. Sell & Co.....	Mdse.	4646	4 65
	Seraphin Blank Book Co....	Binding	4647	1 35
	R. M. Seward & Co.....	Brick	4648	13 75
	Shilling Foundry Co.....	Castings	4649	96
	Southard Novelty Co.....	Blanks	4650	17 25
	Spahr & Glenn.....	Supplies	4651	12 00
	Andrew Spittal.....	Mdse.	4652	93 25
	Standard Chain Co.....	Iron bars	4653	1 25
	Standard Oil Co.....	Oil	4654	14 08

STATEMENT No. II — Concluded.

Date.	To Whom Paid.	For ¹ What Purpose.	Vo. No.	Amount.
1905. June 24	Standish Mach. and Supply Co.	Supplies	4655	10 96
	Mason & Snow.....	Leases	4656	10 00
	Tallmadge Hdwe. Co.....	Mdse.	4657	100 20
	Underwood Typewriter Co..	Supplies	4658	10 75
	J. M. & W. Westwater.....	Mdse.	4659	44 73
	Wilkin-Redman Co.	Tuning	4660	2 50
	R. M. Royer.....	Money advanced	4661	15 60
26	A. Bolenbaugh	Labor	4662	35 10
	Cols. Lithograph Co.....	Diplomas and cer- tificates	4663	545 00
	Geo. H. Morse, Mgr.....	Adv.	4664	75 00
	Chas. B. Morrey.....	Supplies	4665	5 00
	F. M. Hammond.....	Return fees	4666	30 00
	W. O. Thompson.....	Expenses	4667	4 20
27	F. A. Moore.....	Labor	4668	7 43
	Huffman-Conklin Co.	Mdse.	4669	73 97
	Schoedinger, Fearn & Co....	"	4670	69 14
	Peter J. Kraye.....	Repairing	4671	18 00
30	H. C. Price Mgr.....	Oats	4672	21 40
	Balance in hands of L. F. Kiesewetter, Treas. ....	.....		9,358 69
	Total .....	.....		\$477,610 71

STATEMENT NO. III.

In compliance with Section 7 of the Organic Act, passed by the Legislature of Ohio, May 1, 1878 (Bates' Annotated Statutes, Sec. 4105-42), which requires the list of "the number of professors, officers, teachers and other employes, and the compensation of each, to be annually reported," I submit the following:

Name of Employee.	Position.	Salary.
Wm. Oxley Thompson....	President	\$5,000 00
Homer C. Price.....	Professor of Rural Economics and Manager of the Farm.....	2,250 00
John W. Decker.....	Professor of Dairying.....	1,700 00
Charles S. Plumb.....	Professor of Animal Husbandry.....	2,000 00
A. G. McCall.....	Associate Professor of Agronomy.....	1,400 00
Alex Argo.....	Herdsman	720 00
E. F. Mangold.....	Assistant in Dairy Laboratory.....	600 00
Laura Hill.....	Stenographer	480 00
Henry A. Weber.....	Professor of Agricultural Chemistry...	2,250 00
Alfred Vivian.....	Associate Professor of Agricultural Chemistry	1,500 00
Rudolph Hirsch.....	Instructor in Agricultural Chemistry...	600 00
George W. Knight.....	Professor of American History and Political Science	2,250 00
A. H. Tuttle.....	Assistant Professor of American History and Political Science	1,400 00
Henry R. Spencer.....	Instructor of American History and Political Science	1,100 00
A. M. Bleile.....	Professor of Anatomy and Physiology.	2,250 00
Melvin Dresbach.....	Instructor in Anatomy and Physiology..	800 00
R. J. Seymour.....	Assistant in Anatomy and Physiology..	300 00
James A. Beer.....	Fellow in Anatomy and Physiology....	300 00
Wm. C. Mills.....	Curator	480 00
J. N. Bradford.....	Professor of Architecture and Drawing.	2,100 00
Thomas E. French.....	Associate Professor of Architecture and Drawing	1,500 00
Thos. K. Lewis.....	Instructor in Architecture and Drawing.	1,200 00
Silas Martin.....	Instructor in Architecture and Drawing.	1,000 00
J. H. Vosskuehler.....	Instructor in Architecture and Drawing.	1,200 00
J. S. Tidball.....	Instructor in Architecture and Drawing.	800 00
Ralph Rogers.....	Instructor in Architecture and Drawing.	800 00
Henry C. Lord.....	Professor of Astronomy	2,250 00
J. Warren Smith.....	Lecturer in Meteorology.....	100 00
B. F. Maag.....	Assistant in Astronomy	1,000 00
Charles B. Morrey.....	Professor of Bacteriology.....	1,600 00
W. A. Kellerman.....	Professor of Botany.....	2,250 00
J. H. Schaffner.....	Associate Professor of Botany.....	1,300 00
Harlan H. York.....	Assistant in Botany.....	600 00
H. A. Gleason.....	Fellow in Botany.....	300 00
James McOwen.....	Florist	480 00
Sidney A. Norton.....	Emeritus Professor of Chemistry.....	1,250 00
William McPherson.....	Professor of Chemistry.....	2,250 00
W. E. Henderson.....	Associate Professor of Chemistry.....	1,600 00
Charles W. Foulk.....	Associate Professor of Chemistry.....	1,400 00
Catherine E. Andrews.....	Assistant in Chemistry.....	800 00
C. F. Sherman.....	Professor of Civil Engineering.....	1,800 00
A. H. Heller.....	Professor of Civil Engineering.....	1,800 00

STATEMENT No. III — Continued.

Name of Employee.	Position.	Salary.
Frank Eno	Associate Professor of Civil Engineering.	1,500 00
H. D. Bruning	Instructor in Civil Engineering	1,250 00
Edward Orton, Jr.	Professor of Clayworking and Ceramics.	2,000 00
A. V. Bleininger	Instructor in Ceramics	1,000 00
R. C. Purdy	Assistant in Ceramics	500 00
Minnie A. Stoner	Professor of Domestic Science	1,800 00
May Secrest	Associate Professor of Domestic Art....	1,200 00
Cora Elliott	Maid	250 00
J. E. Hagerty	Professor of Economics and Sociology ..	1,600 00
M. B. Hammond	Assistant Professor of Economics and Sociology	1,200 00
D. R. Major	Professor of Education	1,600 00
T. H. Haines	Assistant Professor of Philosophy (part time)	433 00
W. W. Boyd	High School Visitor	2,000 00
F. C. Caldwell	Professor of Electrical Engineering	1,900 00
Helen Lambdin	Stenographer	110 00
Allen C. Barrows	Professor of English Literature	2,250 00
J. R. Taylor	Associate Professor of English Literature.	1,500 00
Wilbur H. Siebert	Professor of European History	1,800 00
E. H. McNeal	Instructor in European History	1,000 00
C. S. Prosser	Professor of Geology	1,900 00
J. A. Bownocker	Professor of Inorganic Geology and Curator of Geological Museum	1,600 00
Lewis A. Rhoades	Professor of Germanic Languages and Literatures	2,250 00
George B. Viles	Assistant Professor of Germanic Lan- guages and Literatures	1,200 00
B. A. Eisenlohr	Instructor in Germanic Languages and Literatures	800 00
J. R. Smith	Professor of Greek	2,250 00
A. W. Hodgman	Associate Professor of Classical Lan- guages	400 00
Wallace S. Elden	Associate Professor of Classical Lan- guages	400 00
W. R. Lazenby	Professor of Horticulture and Forestry ..	2,250 00
Vernon H. Davis	Assistant Professor of Horticulture and Forestry	1,000 00
Frank E. Sanborn	Professor of Industrial Arts and Di- rector of Department	2,000 00
W. A. Knight	Assistant Professor of Machine Shop Practice	1,200 00
W. H. Renck	Instructor in Pattern Making and Founding	1,200 00
C. P. Crowe	Instructor in Forging	1,200 00
Allando Case	Machinist	760 00
R. B. Cool	Pattern Maker	715 00
Samuel C. Derby	Professor of Latin	2,250 00
A. W. Hodgman	Associate Professor of Classical Lan- guages	1,200 00
Wallace S. Elden	Associate Professor of Classical Lan- guages	1,200 00
William H. Page	Professor of Law	2,000 00
E. B. Kinkead	Professor of Law	1,300 00
J. A. Shauck	Professor of Law	1,000 00
E. O. Randall	Professor of Law	800 00
George W. Knight	Professor of Law	250 00
Gilbert H. Stewart	Professor of Law	500 00
Harriet Schneider	Stenographer	440 00

STATEMENT No. III — Continued.

Name of Employee.	Position.	Salary.
Olive B. Jones.....	Librarian	1,450 00
Harriet Townshend	Assistant in Library.....	600 00
Gertrude Kellicott	Assistant in Library.....	800 00
Maud Jeffrey	Assistant in Library.....	800 00
Martha Hartford	Assistant in Library.....	500 00
Max Morton	Assistant in Library.....	300 00
Elizabeth Smythe	Stenographer	400 00
Rosser D. Bohannon.....	Professor of Mathematics.....	2,250 00
G. W. McCoard.....	Associate Professor of Mathematics....	1,600 00
James E. Boyd.....	Associate Professor of Mathematics....	1,500 00
C. L. Arnold.....	Assistant Professor of Mathematics....	1,300 00
K. D. Swartzel.....	Assistant Professor of Mathematics....	1,500 00
H. W. Kuhn.....	Assistant Professor of Mathematics....	1,100 00
S. E. Rasor.....	Instructor in Mathematics.....	1,000 00
E. F. Coddington.....	Assistant Professor of Mathematics....	1,100 00
Wm. T. Magruder.....	Professor of Mechanical Engineering....	2,250 00
E. A. Hitchcock.....	Professor of Experimental Engineering....	1,750 00
Horace Judd	Assistant Professor of Experimental Engineering	1,200 00
Nathaniel W. Lord.....	Professor of Metallurgy and Min- eralogy	2,000 00
D. J. Demorest.....	Instructor in Metallurgy and Mineralogy.	800 00
Gustav Bruder	Bandmaster	200 00
Frank A. Ray.....	Professor of Mine Engineering.....	2,000 00
T. B. Simon.....	Student Assistant	300 00
George B. Kauffman.....	Professor of Pharmacy.....	2,000 00
C. A. Dye.....	Assistant Professor of Pharmacy.....	1,100 00
William H. Scott.....	Professor of Philosophy.....	2,250 00
T. H. Haines.....	Assistant Professor of Philosophy (two- thirds time)	867 00
A. E. Davies.....	Instructor in Philosophy.....	900 00
Don C. Huddleson.....	Instructor in Physical Education.....	1,000 00
Maude W. Martin.....	Director Physical Education for Women.	800 00
Frances G. Paterson.....	Student Assistant.....	75 00
Lily Weeks	Maid	250 00
Benjamin F. Thomas.....	Professor of Physics.....	2,250 00
A. D. Cole.....	Professor of Physics.....	2,000 00
Robert F. Earhart.....	Assistant Professor of Physics.....	1,200 00
H. D. Ayers.....	Assistant in Physics.....	800 00
Benjamin L. Bowen.....	Professor of Romance Languages.....	2,250 00
C. A. Bruce.....	Associate Professor of Romance Lan- guages	1,500 00
E. S. Ingraham.....	Assistant Professor of Romance Lan- guages	1,200 00
Mary D. James.....	Assistant in Romance Languages.....	300 00
Rosalie T. James.....	Fellow in Romance Languages.....	300 00
David S. White.....	Professor of Veterinary Medicine.....	2,000 00
S. Sisson.....	Professor Comparative Anatomy.....	1,700 00
D. H. Udall.....	Associate Professor of Surgery and Ob- stetrics	1,450 00
O. V. Brumley.....	Assistant Professor of Veterinary Medi- cine	1,630 00
J. McL. Phillips.....	Assistant Professor of Veterinary Medi- cine	1,000 00
Chas. F. Payne.....	Student Stenographer	120 00
Herbert Osborn	Professor of Zoology and Entomology....	2,250 00
J. E. Hine.....	Associate Professor of Zoology and En- tomology	1,200 00

STATEMENT No. III — Continued.

Name of Employee.	Position.	Salary.
F. L. Landacre.....	Associate Professor of Zoology and Entomology	1,200 00
F. M. Surface.....	Fellow in Zoology and Entomology....	250 00
R. M. Royer.....	Store Keeper	840 00
Lee W. Funk.....	Assistant in Store Room.....	720 00
Wm. C. McCracken.....	Chief Engineer	1,800 00
Wm. Standley	Assistant Chief Engineer.....	780 00
W. H. Case.....	First Engineer	660 00
Thomas Boude	Second Engineer	550 00
B. A. LeBay.....	Steam Fitter	660 00
Samuel Lowery	Second Fireman	450 00
Roy Pratt	Third Fireman	400 00
Marion Peck	Helper	450 00
George Rose	Plumber	900 00
C. E. Lewis	Janitor	180 00
Charles Hicks	Janitor, University Hall.....	540 00
Joseph Black	Helper, University Hall.....	300 00
G. A. Goodspeed.....	Janitor, Chemical Hall.....	480 00
W. M. Stahl.....	Helper, Chemical Hall.....	400 00
W. R. Thomas.....	Gymnasium, Janitor	480 00
Richard Brandon.....	Helper, Gymnasium	360 00
Wm. Whitestone	Biological Hall, Janitor	480 00
Harry Chantler	Janitor, Orton Hall	480 00
Mrs. Frances Andrix.....	Janitress, Orton Hall and Page Hall...	360 00
G. C. Denny.....	Janitor, Horticultural and Botanical Halls	480 00
W. E. Cook.....	Janitor, Veterinary Hospital.....	480 00
M. N. Cook.....	Janitor, Townshend Hall	480 00
Andrew Rudell	Janitor, Townshend Hall	360 00
John W. Brown.....	Janitor, Page Hall	480 00
H. M. Templin.....	Janitor, Veterinary Building.....	440 00
H. H. Hamilton.....	Student Janitor, Botanical Hall.....	125 00
C. H. Bushfield.....	Student Janitor, Electrical Laboratory..	125 00
D. R. Walker.....	Student Janitor, Mechanical Laboratory.	180 00
W. F. Martin.....	Student Janitor, Emerson McMillin Obser.	240 00
A. B. Probert	Watchman	540 00
John Ricketts	Watchman	540 00
James Kelley	Lawnkeeper	360 00
M. S. Harvey.....	Elevator Man	250 00
C. H. Woodruff.....	Carpenter	840 00
J. P. Covan.....	Electrician and Machinist.....	1,000 00
A. F. Hall.....	Machinist	880 00
Joseph V. Denney.....	Professor of English.....	2,500 00
W. I. Graves.....	Assistant Professor of English.....	1,300 00
G. H. McKnight.....	Assistant Professor of English.....	1,300 00
Mary Malloy	Fellow in English.....	300 00
Mima J. Weaver.....	Fellow in English.....	300 00
Gertrude S. Jackson.....	Fellow in English.....	300 00
Alexis Cope.....	Secretary Board of Trustees (part time).	562 50
Carl E. Steeb.....	Secretary Board of Trustees (part time).	1,187 50
Carl E. Steeb.....	Accountant (part time).....	208 32
Wilbur E. Mann.....	Accountant (part time).....	791 64
Katharine H. Duncan.....	Executive Clerk	900 00
Edith D. Cockins.....	Registrar	900 00
Gertrude H. Bellows.....	Assistant to Registrar (part time).....	40 00
Lucy M. Taylor.....	Assistant to Registrar (part time).....	360 00
Bess C. Watters.....	Assistant to Secretary	570 00
Minnie F. Hines.....	President's Stenographer (part time)..	440 00

STATEMENT No. III — Concluded.

Name of Employee.	Position.	Salary.
Alta Rausch	President's Stenographer (part time) ..	40 00
C. M. Beem	Janitor, Hayes Hall (part time)	120 00
C. M. Beem	Pattern Maker in Industrial Art (part time)	600 00
Washington Townsel	Janitor, Orton Hall (part time)	120 00
John Brown	Janitor, Brown Hall (part time)	384 00
Earl Conway	Janitor Physics Building	160 00
Fred Fleischer	Janitor, Veterinary Laboratory (part time)	40 00
Sherman Wolfe	First Fireman	300 00
Harry Osborne	Helper	300 00
R. H. Nesbitt	Janitor	180 00
John Chisholm	Supt. of the University Farm	600 00
H. S. Arkell	Assistant in Animal Husbandry	525 00
E. S. Guthrie	Assistant in Agriculture	200 00
Pearl Coutellier	Stenographer (part time)	60 00
W. H. Scully	Stenographer (part time)	40 00
A. B. Coover	Stenographer (part time)	20 00
S. B. Williams	Student Assistant in Drawing	300 00
Mary McKinley	Fellow in Botany (part time)	210 00
Caroline Carmack	Fellow in Botany (part time)	90 00
H. R. Watkins	Assistant in Chemistry	600 00
C. G. Stewart	Assistant in Chemistry	600 00
C. C. Vogt	Fellow in Chemistry	300 00
J. M. Knoté	Fellow in Chemistry	300 00
H. F. Staley	N. B. Mfgs. Assn. Scholarship	100 00
Metta Seymour	Stenographer	100 00
F. A. Fish	Assistant Professor of Electrical Engr. (part time)	495 00
J. S. Riddle	Fellow in Electrical Engineering	300 00
R. B. Cool	Pattern Maker (part time)	65 00
T. W. Holloway	Assistant in Mechanical Engineering ..	420 00
J. G. Sanders	Fellow in Zoology and Entomology (part time)	120 00
E. A. Sanders	Fellow in Zoology and Entomology (part time)	120 00
Annie Smead	Fellow in Zoology and Entomology (part time)	60 00
J. H. Outhwaite	Professor of Law	1,500 00
E. B. Dillon	Professor of Law	500 00
J. M. Butler	Professor of Law	250 00
George W. Rightmire	Instructor in Law	500 00
Wade H. Ellis	Professor of Law	800 00
J. E. Beal	Fellow in German	300 00
R. O. Busey	Fellow in German	300 00
Alice Smith	Stenographer	252 00
C. W. Bauman	Assistant in Cheese-making	125 00
John R. Chamberlin	Assistant in Civil Engineering	640 00
Allan Coggeshall	Assistant Professor of Electrical Engr. (part time)	110 00
Carl W. Gay	Assistant Professor of Animal Husbandry (part time)	120 00

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To the Board of Trustees of the Ohio State University:

The undersigned, the Finance Committee, have in obedience to your instructions, examined the accounts and vouchers of L. F. Kiesewetter, the treasurer of the university, for the period from July 1, 1904, to June 30, 1905, and carefully compared them with the vouchers in possession of the secretary, and hereby certify that the report of the treasurer submitted to the board for the period named, which is the last fiscal year, is correct.

D. M. MASSIE,
GUY W. MALLON,
JNO. T. MACK,
Finance Committee.

COLUMBUS, OHIO, September 27, 1905.

OHIO STATE UNIVERSITY

COLUMBUS, OHIO

REPORT OF TREASURER

of said institution to the Secretary of Agriculture and the Secretary of the Interior, of amount received under act of Congress of August 30, 1890, in aid of Colleges of Agriculture and the Mechanic Arts, and the disbursements thereof, to and including June 30, 1905. (Report due September 1. See explanation on back.)

Balance on hand July 1, 1904.....	\$111 61
Date of receipt of installment for 1904-5 — July 7, 1904. Amount....	25,000 00

Total available for year ended June 30, 1905	\$25,111 61
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Disbursements thereof for and during the year ended June 30, 1905:

Agriculture, as per Schedule A.....	\$3,896 66
Mechanic Arts, as per Schedule B.....	7,190 00
English Language, as per Schedule C.....	1,770 00
Mathematical Science, as per Schedule D.....	2,720 00
Natural or Physical Science, as per Schedule E.....	8,350 00
Economic Science, as per Schedule F.....	1,160 00

Total expended during year.....	\$25,086 66
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Balance remaining unexpended July 1, 1905.....	\$24 95
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I hereby certify that the above account is correct and true, and, together with the schedules hereunto attached, truly represents the details of expenditures for the period and by the institution named; that said expenditures were applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural, and economic science, with special reference to their applications in the industries of life, and to facilities for such instruction, and that no part of these funds was expended for the erection, preservation, or repair of any building or buildings.

L. F. KIESEWETTER,
Treasurer.

The fact that it has already been necessary to require several institutions to replace sums of money erroneously expended from this fund makes it advisable to call attention again to the limitations placed by the

NOTE. — Two copies to be returned to the Bureau of Education, one of which will be forwarded to the Secretary of Agriculture.

act of Congress of August 30, 1890, upon the use of money appropriated by it, which is "*to be applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural, and economic science, with special reference to their applications in the industries of life, and to the facilities for such instruction.*" It is held that this language authorizes the purchase from this money of apparatus, machinery, text-books, reference books, stock, and material used in instruction or for the purpose of illustration in connection with any of the branches enumerated, and the payment of salaries of instructors in said branches only. The erection of buildings is specifically prohibited by the act, and the Assistant Attorney-General has decided that the purchase of land is not allowable. It should not be expended for heating or lighting buildings, repairs, furniture, cases, shelving, desks, musical instruments, the salaries of instructors in philosophy, psychology, ethics, logic, history, political science, civics, pedagogy, ancient and modern languages (except English), or for the salaries of presidents, treasurers, secretaries, bookkeepers, janitors, watchmen, etc. Neither can charges for cashing the checks of the United States Government be paid out of this fund. In short, *the plant*—the land, buildings, and ordinary appliances of a school—must be provided from other sources, and this particular fund must be applied exclusively to the subjects named in the act and the facilities especially required for those subjects.

SCHEDULE A

Disbursements for Instruction in Agriculture and for Facilities for such Instruction During the Year Ended June 30, 1905.

I. FOR SALARIES OF INSTRUCTORS.

Names of Instructors.	Subjects Taught for Which Paid From "Morrill Fund."	Amount.
Prof. H. C. Price.....	Agriculture	\$450 00
Prof. J. W. Decker.....	Dairying	340 00
Prof. C. S. Plumb.....	Animal husbandry	400 00
Assoc. Prof. A. G. McCall.....	Agronomy	280 00
Assistant Alex. Argo.....	Animal husbandry	120 00
Assistant E. F. Mangold.....	Dairying	120 00
Prof. W. R. Lazenby.....	Horticulture and forestry.....	450 00
Asst. Prof. V. H. Davis.....	Horticulture and forestry.....	166 66
Prof. D. S. White.....	Veterinary science	400 00
Prof. S. Sisson.....	Veterinary science	340 00
Assoc. Prof. D. H. Udall.....	Veterinary science	290 00
Assoc. Prof. O. V. Brumley.....	Veterinary science	340 00
Assoc. Prof. J. McI. Phillips.....	Veterinary science	200 00
Total .....	.....	\$3,896 66

SCHEDULE B

Disbursements for Instruction in Mechanic Arts and for Facilities for such Instruction During the Year Ended June 30, 1905.

I. FOR SALARIES OF INSTRUCTORS.

Names of Instructors.	Subjects Taught for Which Paid From "Morrill Fund."	Amount.
Prof. W. T. Magruder.....	Mechanical engineering	\$450 00
Prof. E. A. Hitchcock.....	Experimental engineering	350 00
Asst. Prof. H. Judd.....	Experimental engineering	240 00
Assistant T. Holloway.....	Mechanical engineering	120 00
Prof. C. E. Sherman.....	Civil engineering	360 00
Prof. A. H. Heller.....	Civil engineering	360 00
Prof. Frank Eno.....	Civil engineering	300 00
Asst. Prof. H. D. Bruning.....	Civil engineering	250 00
Prof. F. C. Caldwell.....	Electrical engineering	380 00
Assistant F. A. Fish.....	Electrical engineering	220 00
Prof. F. A. Ray.....	Mining engineering	400 00
Prof. J. N. Bradford.....	Architecture and Drawing.....	420 00
Assoc. Prof. T. E. French.....	Architecture and Drawing.....	300 00
Asst. Prof. T. K. Lewis.....	Architecture and Drawing.....	240 00
Assistant S. Martin.....	Architecture and Drawing.....	200 00
Asst. Prof. J. H. Vosskuehler.....	Architecture and Drawing.....	200 00
Assistant J. S. Tidball.....	Architecture and Drawing.....	160 00
Assistant R. Rogers.....	Architecture and Drawing.....	160 00
Prof. Edw. Orton Jr.....	Ceramics	400 00
Assistant A. V. Bleining.....	Ceramics	200 00
Assistant R. C. Purdy.....	Ceramics	100 00
Prof. F. E. Sanborn.....	Shop work	400 00
Asst. Prof. W. A. Knight.....	Shop work	240 00
Assistant W. H. Rench.....	Shop work	240 00
Assistant C. P. Crowe.....	Shop work	240 00
Assistant A. Case.....	Shop work	140 00
Assistant C. N. Beem.....	Shop work	120 00
Total .....	.....	\$7,190 00

SCHEDULE C

Disbursements for Instruction in English Language and for Facilities for such Instruction During the Year Ended June 30, 1905.

I. FOR SALARIES OF INSTRUCTORS.

Names of Instructors.	Subjects Taught for Which Paid From "Morrill Fund."	Amount.
Prof. J. V. Denney.....	English language	\$500 00
Prof. A. C. Barrows.....	English language	450 00
Assoc. Prof. J. R. Taylor.....	English language	300 00
Asst. Prof. W. L. Graves.....	English language	260 00
Asst. Prof. G. H. McKnight.....	English language	260 00
Total .....	.....	\$1,770 00

SCHEDULE D

Disbursements for Instruction in Mathematical Science and for Facilities for such Instruction During the Year Ended June 30, 1905.

I. FOR SALARIES OF INSTRUCTORS.

Names of Instructors.	Subjects Taught for Which Paid From "Morrill Fund."	Amount.
Prof. R. D. Bohannon.....	Mathematics	\$450 00
Assoc. Prof. G. W. McCoard.....	Mathematics	320 00
Assoc. Prof. J. E. Boyd.....	Mathematics	300 00
Asst. Prof. C. L. Arnold.....	Mathematics	260 00
Asst. Prof. K. D. Swartzel.....	Mathematics	300 00
Asst. Prof. H. W. Kuhn.....	Mathematics	220 00
Assistant S. E. Rasor.....	Mathematics	200 00
Asst. Prof. E. F. Coddington.....	Mathematics	220 00
Prof. H. C. Lord.....	Astronomy	250 00
Assistant B. F. Maag.....	Astronomy	200 00
Total .....	.....	\$2,720 00

SCHEDULE E

Disbursements for Instruction in Natural or Physical Science and for Facilities for Such Instruction During the Year Ended June 30, 1905.

I. FOR SALARIES OF INSTRUCTORS.

Names of Instructors.	Subjects Taught for Which Paid From "Morrill Fund."	Amount.
Prof. S. A. Norton.....	Chemistry	\$250 00
Prof. Wm. McPherson.....	Chemistry	450 00
Assoc. Prof. W. E. Henderson.....	Chemistry	320 00
Assoc. Prof. C. W. Foulk.....	Chemistry	280 00
Assistant H. R. Watkins.....	Chemistry	120 00
Assistant C. E. Andrews.....	Chemistry	160 00
Assistant C. G. Stewart.....	Chemistry	120 00
Prof. B. F. Thomas.....	Physics	450 00
Prof. A. D. Cole.....	Physics	400 00
Asst. Prof. R. F. Earhart.....	Physics	240 00
Assistant H. D. Ayers.....	Physics	160 00
Prof. W. A. Kellerman.....	Botany	450 00
Assoc. Prof. J. H. Schaffner.....	Botany	260 00
Assistant H. H. York.....	Botany	100 00
Prof. Herbert Osborn.....	Zoology and Entomology.....	450 00
Assoc. Prof. J. S. Hine.....	Zoology and Entomology.....	240 00
Assoc. Prof. F. L. Landacre.....	Zoology and Entomology.....	240 00
Prof. C. S. Prosser.....	Geology	380 00
Prof. J. A. Bownocker.....	Geology	320 00
Prof. N. W. Lord.....	Metallurgy and Mineralogy.....	400 00
Assistant D. J. Demorest.....	Metallurgy and Mineralogy.....	160 00
Prof. A. M. Bleile.....	Physiology	450 00
Assistant M. Dresbach.....	Physiology	160 00
Prof. C. B. Morrey.....	Bacteriology	320 00
Prof. G. B. Kauffman.....	Pharmacy	400 00
Asst. Prof. C. A. Dye.....	Pharmacy	220 00
Prof. H. A. Weber.....	Agricultural Chemistry	450 00
Assoc. Prof. A. Vivian.....	Agricultural Chemistry	280 00
Assistant R. Hirsch.....	Agricultural Chemistry	120 00
Total .....	.....	\$8,350 00

SCHEDULE F

Disbursements for Instruction in Economic Science and for Facilities for Such Instruction During the Year Ended June 30, 1905.

I. FOR SALARIES OF INSTRUCTORS.

Names of Instructors.	Subjects Taught for Which Paid From "Morrill Fund."	Amount.
Prof. J. E. Hagerty.....	Political economy	\$320 00
Assoc. Prof. M. B. Hammond.....	Political economy	240 00
Prof. M. A. Stoner.....	Domestic economy	360 00
Assoc. Prof. May Secrest.....	Domestic economy	240 00
Total .....	.....	\$1,160 00

STATISTICAL TABLE I — THE WORK OF INSTRUCTORS 1904-1905 — Continued.

Course Subjects.	Department Number.			Total Hours per Week.						Number of Students.		
				Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.			
AGRICULTURE — Concluded												
Milk Inspection	19			1			2			13		
Special Work				1			2			2		
Buttermaking and Cheesemaking		1			3			12			22	
Buttermaking and Cheesemaking		3									22	
Buttermaking and Cheesemaking		2			2			12			5	
Buttermaking and Cheesemaking		4									5	
Buttermaking		14			2			6			7	
Cheesemaking			16			2			3			5
Special									5			1
Thesis									1			1
AGRICULTURAL CHEMISTRY												
Elementary Chemistry	1	8	9	3	3	3	6	6	6	70	53	11
Elementary Chemistry	10	11	12	3	3	3	6	6	6	72	60	57
Applications	13	13	13	2	2	2	6	6	6	33	34	30
Quantitative Analysis	14	14					6	6		10	9	
Quantitative Analysis	6	6	6				8	8	8	3	4	3
Dairy Chemistry		7			2						22	
Dairy Chemistry		15						2			3	
AMERICAN HISTORY												
Political History of U. S. (3 sections)	1	1	1	9	9	9				76	65	58
Slavery Struggle and Results	4	4	4	3	3	3				28	28	28
History of Political Parties	7	7	7	3	3	3				12	10	9

[illegible]

STATISTICAL TABLE I — THE WORK OF INSTRUCTORS 1904-1905 — Continued.

Course Subjects.	Department Number.	Total Hours per Week.						Number of Students.		
		Lectures.			Laboratory.			First Term.	Second Term.	Third Term.
		First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.			
DRAWING										
Lettering	2				1			5		29
Technical (2 sections)	5				1			10		57
Photography (2 sections)	7				1			8		33
Mechanical Drawing (3 sections)	10				3			15		91
Pencil Drawing (2 sections)	14	14						8	8	31
Oil and Water Color Painting (3 sections)	17	18	19					12	15	24
Mechanical Drawing and House Planning	20	15	15		1	1		2	2	8
Technical Drawing	21	22	23		1	1		2	2	4
Frechand Drawing	24									17
Frechand Drawing (14 sections)	27	25						56	23	324
Frechand Drawing (2 sections)	29	29						4	4	24
Frechand Drawing										
Geometrical Drawing										
Geometrical Drawing and Lettering (4 sections, 2d term)										
Projections (18 sections, 1st term)	33	31	32		8	7	10	32	6	132
Descriptive Geometry (4 sections)		34	35			6	2			131
Projections, Drafting and Blue Printing		36	37			4	2	12	6	66
Clay Modeling		38	39			1	1	4	4	23
Special		40	41					8	4	19
						1		2	10	9
										1
ASTRONOMY										
Astronomy, Geodesy, and Least Squares	4	5	6		3	3				29
General Astronomy	1	1	1		2	2				9
Meteorology			3							

BACTERIOLOGY

BACTERIOLOGY									
Bacteriology	1	1	1	2	2	10	11		
Bacteriology	5	1	1	1	2	14	14		
Bacteriology	6	2	4	8	6	14	14		
Bacteriology	6	1	1	1	10	8	1		
Bacteriology	4a	1	1	1	2	1	11		
Bacteriology	2	1	1	1	2	1	14		
Bacteriology	2	4	1	1	2	4	24		

BOTANY

BOTANY									
Physiological Botany	6	7		2		4		40	37
Phytology	9	10		1		4		4	5
Phytology Work — Economic Botany	11	11				4		6	6
Phytology Work — Medical Botany	16					3			
Forest Botany	17	18		2		4		20	14
Ecology	21	22		2		4			
Laboratory and Field Work	24	24				4			
Histology and Physiology	25	25				6		6	
Histology and Microtechnique	26	26				8		10	
Systematic Botany	27	27				10		6	
Research Work in Systematic Botany	28	28		2		6		4	
Morphology and Physiology (Research)	30	30				10		6	
Monographic Work	30	30				10		2	
Research in Ecology	31	31				10		1	
Minor Investigation	32	32				10		1	
Special Botany						4		3	
Elementary Botany	1			3		6		1	
Vegetable Pathology	8					2		2	
Household Botany	13			3		4		4	
Advanced Laboratory Work in Histology and Physiology	26					10		10	
Laboratory and Field Work in Systematic Botany	27					10		10	
Forest Ecology and Pathology	10			2		4		4	

CHEMISTRY

CHEMISTRY									
Elementary Chemistry	1	1	9	2	2	3	80	75	68
Elementary Chemistry	7	7	2	2	2	3	908	215	.....
Elementary Chemistry	8	8	2	2	2	6	.....	15	.....
Elementary Chemistry	9	9	1	1	1	6	.....	14	.....
Quantitative Analysis	20	20	20	1	1	6	.....	15	13
Advanced General Chemistry	21	21	21	2	2	6	.....	27	22
Organic Chemistry	34	34	2	2	2	6	.....	7	.....
Organic Chemistry	9	9	2	2	2	6	15	13	.....
Organic Chemistry	8	8	2	2	2	6	.....	1	.....
Industrial Chemistry	32	32	2	2	2	4	.....	10	.....
Qualitative Analysis	87	87	1	1	1	9	8	8	.....
Advanced Chemistry	27	27	27	1	1	9	8	8	.....
Rare Elements	35	35	3	3	3	6	.....	4	.....
Chemical Seminars	26	26	1	1	1	1	.....	4	.....

• Fifteen secs.

Roof Trusses	Water Supply	Engineering	Plane Surveying	Thesis Work	19	9	10	2	20	34
					21	3	12			34
CLAYWORKING AND CERAMICS										
Ceramic Chemistry	1					8		15		
Ceramic Lecture Course	4					8		8		
Ceramic Laboratory	9					25		6		
Scholarship Work								1		
Ceramic Chemistry						1		8		
Ceramic Lecture Course						5		8		
Ceramic Chemistry						1		4		
Ceramic Laboratory	10					25		1		
Scholarship Work								4		
Thesis Work	12					5		1		
Cement Lectures	17							4		
Ceramic Construction						1		10		
Ceramic Chemistry	3					5		6		
Ceramic Lecture Course						1		7		
Ceramic Laboratory	11					25		1		
Scholarship Work								2		
Thesis Work	12					9		1		
Ceramics	19							2		
Ceramics, Problems										
DOMESTIC SCIENCE										
Food Economics	1					6		14		
Preservation of Foods	4					6		7		
Thesis Domestic Science								9		
Hand craft, Textiles	1					3		21		
History of Costume	4					6		10		
Thesis—Domestic Arts								2		
Hand-craft, Textiles	1					3		3		
Food Economics	2					6		6		
Therapeutic Diet and Emergency Work	11					3		1		
Household Economics								7		
Domestic Science, Special								3		
ECONOMICS AND SOCIOLOGY										
Elements of Political Economy	1					9		141		
The History of Industrial Society	2					3		40		
Practical Problems	5					2		16		
Economic Geography	9					3		11		
Sociology	11					3		28		
Public Finance and Taxation	13					2		11		

ENGLISH

Paragraph Writing and Analysis of Prose.....	1	1	24	22	20	24	22	20	400	422	872
Expository Writing, Argumentation.....	2	3	8	8	8	6	6	6	227	216	184
Advanced Composition.....	7	5	.....	2	2	2	2	2	.....	22	24
Introduction to English Literature.....	7	7	6	6	6	2	2	2	80	62	54
General Survey of English Literature.....	8	8	6	6	6	2	2	2	73	68	59
Spencer; Dryden; Johnson.....	10	11	3	.....	.....	.....	.....	.....	6	.....	.....
Burke; Carlyle; Arnold.....	14	15	3	4	4	.....	.....	.....	16	17	23
Shelley; Tennyson; Browning.....	18	19	3	3	3	.....	.....	.....	23	36	54
The English Bible.....	22	22	1	1	1	.....	.....	.....	21	19	16
Old English Prose and Poetry.....	28	28	2	2	2	.....	.....	.....	4	4	4
Pro. Chaucerian Literature; Chaucer Arthurian Story.....	30	31	3	3	3	.....	.....	.....	4	4	13
Shakespeare and the Elizabethan Drama.....	35	35	3	3	3	.....	.....	.....	24	24	34
Short Story; The Novel.....	39	40	4	4	4	2	2	2	24	24	34
Literary Types; Poetics.....	42	42	3	3	3	1	1	1	16	15	11
American Literature; Current Literature.....	45	46	3	3	3	.....	.....	.....	18	15	17
Seminary in Rhetoric.....	49	49	2	2	2	.....	.....	.....	4	4	4
Graduate Courses.....	51	51	2	2	2	.....	.....	.....	5	6	.....

EUROPEAN HISTORY

Middle Ages.....	1	2	6	6	.....	.....	.....	.....	57	69	.....
Renaissance.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Modern Europe.....	4	4	3	3	3	.....	.....	.....	11	8	7
English Constitutional History.....	5	5	2	2	2	.....	.....	.....	5	.....	.....
Greek History.....	6	6	2	2	2	.....	.....	.....	7	22	19
Roman History.....	7	8	3	3	3	.....	.....	.....	.....	7	.....
Protestant Revolution.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
French Revolution and Napoleon.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Europe Since 1815.....	14	14	3	3	3	.....	.....	.....	25	25	23
Narrative English History.....	15	15	2	2	2	.....	.....	.....	5	5	.....
Northeastern Europe.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
The Asiatic Question.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Medieval Documents, etc.....	20	20	2	2	2	.....	.....	.....	2	2	2
Special Topics in Modern European History.....	21	21	2	2	2	.....	.....	.....	2	2	2
Charles the Great.....	19b	.....	.....	.....	.....	.....	.....	.....	.....	3	.....
The Feudal System.....	.....	.....	.....	.....	8	.....	.....	.....	.....	.....	4

GEOLOGY

Physiography.....	17	17	3	3	3	.....	.....	.....	.....	56	63
Inorganic Geology.....	11	.....	3	.....	.....	.....	.....	.....	20	.....	.....
Petrography.....	19	19	6	6	6	.....	.....	.....	2	1	1
Special.....	.....	.....	1	1	1	.....	.....	.....	1	1	1
General Geology.....	2	.....	4	.....	.....	.....	.....	.....	71	.....	.....
Paleontology.....	14	14	1	.....	.....	.....	.....	.....	4	4	3
Advanced Historical Geology.....	16	16	1	1	1	.....	.....	.....	2	1	2
Applied Geology.....	5	5	3	3	2	.....	.....	.....	2	26	.....
Economic Geology.....	6	6	3	3	.....	.....	.....	.....	41	.....	.....

STATISTICAL TABLE I — THE WORK OF INSTRUCTORS 1904-1905 — Continued.

Course Subjects.	Department Number.	Total Hours per Week.			Number of Students.		
		Lectures.			Laboratory.		
		First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.
GEOLOGY - Concluded							
Petrography							
Elementary Geology	1	1	1	4			194
Historical Geology	4	2	4	4			59
Special	12	3	3	3			87
Research Work		2	2	1			70
Field Geology	20	1	1	1			75
Physiography	13	1	1	5			45
Areal Geology	15			1			42
							6
							4
GERMANIC LANGUAGES AND LITERATURES							
Elementary German	1	1	1	4			229
Science Reading	2	2	2	4			180
Intermediate German	4	4	4	4			41
Classical Drama	9	9	9	3			59
Faust	11	11	11	3			70
Colloquial Exercises and Composition	12	12	12	2			75
Deutscher Aufsatz	13	13	13	1			45
Gothic	14	14	14	1			42
Middle High German	16	16	16	2			6
Seminary	26	26	26	2			4
Völkisch and Kirchenlied	28	28	28	2			7
Old High German	15	15	15	1			4
Old Saxon and Old Norse	17	17	17	1			3
History of German Literature Since the Reformation	30	30	30	3			2
Special Graduate							6
							1

GREEK

Xenophon	7						4						2		1	
Herodotus		8					4									
Homer: Odyssey			9					4								1
Lysias	10						3						3		3	
Plato		11						3								
Homer: Iliad			12						3							3
Thucydides	13						3						1			
Euripides	16						2						2		1	
Sophocles		17						2								
Plato	25						2						5		4	
Xenophon		26						2								
New Testament		27						2								6
Isocrates	29						2						3		2	
Arrian		30						2								
Euripides		31						2								2
Elementary Greek and Anabasis	1	1	1				4	4					10		8	2

HORTICULTURE AND FORESTRY

Elements of Horticulture	1						6									
Varieties of Cultivated Fruits	5						3									
Ornamental Plants	8						2									
Elements of Forestry	11						4									
Nature Study	16						1									
Thesis																
Principles of Fruit Culture		6						6								
Vegetable Forcing		9						3								
Forestry		12						3								
Wildlife Gardening and Floriculture		17						1								
Plant Variation								2								
Thesis																
Forest Economics		13						3								7
Landscape Gardening		15						2								9
Plant Propagation		3						0								20
Orniculture		14						3								3
Home Gardening		8						1								3
Thesis																6

INDUSTRIAL ARTS

Tools and Machines	1	1	1				3	3	3							
Designing		2	2													
Shop Equipment, Appliances, etc.	3	3	3				3	3	3				8		7	4
Advanced Designing		4	4										1		6	4
Workshop Appliances													1		1	1
Machine Design																18
Machine Drawing	8												6			

STATISTICAL TABLE I — THE WORK OF INSTRUCTORS 1904-1905 — Continued.

Course Subjects.	Department Number.	Total Hours per Week.						Number of Students.			
		Lectures.			Laboratory.			First Term.	Second Term.	Third Term.	
		First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.				
SHOPWORK											
Carpentry and Patternmaking	1						6	6	3	34	27
Forging Work	2						6	6	42	40	22
Foundry Work	3						4	6	39	31	33
Chipping and Filing	4						6	6	44	17	80
Carpentry and Patternmaking	7	4		4	6	6	6	6	2		6
Cabinet Work	8	7		8	6	6	6	6	20	34	1
Advanced Patternmaking	9			9	6	6	6	6	36	30	29
Forging	11			11	6	6	6	6	10	89	23
Machine Work	13			13	6	6	6	6	82		17
Machine Work	14			14	6	6	6	6		22	
Advanced Machine Work	15			15	6	8	6		1		
Advanced Machine Work	16			16	6	6					
SHOPWORK (SUMMER TERM)											
Chipping and Filing	4				36			27			
Carpentry and Patternmaking	7				36			38			
Forging	11				36			32			
Machine Work	13				18			12			
Machine Work	14				24			14			
Advanced Machine Work	15				24			10			
LATIN											
Cicero; Livy; Horace	1	2	3	12	12	12			47	46	43
Pliny; Tacitus; Terrence	4	6	6	6	6	6			15	13	14
Plautus; Cicero; Seneca	10	11	12	3	3	3			2	2	2
Cicero; Lucretius; Horace	13	14	15	3	3	3			10	8	8

Teachers' Course	18	18	18	3	3	3	3	3	3	13	13	11
Antiquities	20	20	20	2	2	2	2	2	2	11	11	11
Latin Special				1	1	1	1	1	1	2	2	1
Latin Special										1	1	1
LAW												
Elementary Law				10						72		
Domestic Relations				5						76		
Bailments				3						48		
Evidence				3						53		
Negotiable Instruments				5						52		
Pleading				5						53		
Constitutional Law				3						33		
Equity Jurisprudence				4						36		
Municipal Corporations				3						36		
Private Corporations				3						35		
Probate Law				3						35		
Agency				3						35		
Contracts							9			61		
Criminal Law							4			66		
Ethics							3			57		
Evidence							2			57		
Federal Practice							2			54		
Moot Court							2			54		
Partnership							2			51		
Pleading							1			54		
Private Corporations							2			31		
Quasi Contracts							2			32		
Real Property							4			56		
Sales							2			61		
Suretyship							2			33		
Torts							4			61		
Trial Practice							2			31		
Wills							3			53		
MATHEMATICS												
College Algebra, (3) Trigonometry, (3) Analytics	31	32	33	55	55	55	55	50		297	293	295
College Algebra, (2) Trigonometry, (3) Analytics	21	22	23	9	9	9	9	9		70	64	65
Calculus	41	43	43	30	30	30	30	30		238	201	174
Mechanics	71	72	73	20	20	20	20	20		108	101	90
Geometry (1 and 2)	3	3	3	6	6	6	6			32	20	
Elementary Algebra	1			6	6	6	6			16		
General Problems on Past Work	24	24	24	1	1	1	1	1		4	3	3
Higher Electives	25	25	25	16	16	16	16	18		19	23	18
Differential Equations	11	74		1	1	1	2			28	7	
Geometry							5			19		
Trigonometry		84	14				5					33

STATISTICAL TABLE I — THE WORK OF INSTRUCTORS 1904-1905 — Continued.

Course Subjects.	Department. Number.			Total Hours per Week.						Number of Students.		
				Lectures.			Laboratory.					
	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.	First Term.	Second Term.	Third Term.			
MECHANICAL ENGINEERING												
Mechanism	18	3	3		10				4		54	23
Machine Design	18	18	19	6	5					27	27	20
Thesis	21	21	21						10	19	19	19
Materials of Construction	23			2			4			1		
Steam Machinery		20			1						32	
Hydraulic Machinery		31	31			3						17
Mechanical Engineering of Power Plants		32	32			10						62
Steam Engines and Boilers	33			5	6					42	19	
Thermodynamics		34										
Experimental Engineering	12					8				26		
Experimental Engineering	27	14	15			10	8		6	19	18	18
Experimental Engineering		17	25				4	4	8		22	16
Experimental Engineering			36						6			12
Experimental Engineering	29	30	28				12	4		21	22	27
METALLURGY AND MINERALOGY												
Metallurgy (1)	4	4			5					55	43	
Metallurgy — Laboratory	5	5	5	2	1	1	25	25	25	23	23	20
Ore Dressing and Coal Washing	8			2						9		
Metallurgy (4) — Special this year only					3						11	
Metallurgical Construction		7			3						10	
Mineralogy			2			2						35
Mineral Chemistry			9			6					6	
Determinative Mineralogy			3			1			20			14

MILITARY SCIENCE AND TACTICS

Theoretical Military Work
 Practical Military Work

683

785

857

883

MINE ENGINEERING

Mine Engineering (5)
 Elementary Algebra
 Mine Surveying
 Mine Surveying
 Mine Surveying
 Metallurgy (7)
 Mine Engineering
 Thesis

10

9

23

27

19

8

2

16

9

10

PHARMACY

Pharmacy
 Pharmacy
 Materia Medica
 Pharmacy
 Pharmaceutical Latin
 Quiz
 Pharmacognosy
 Chemistry — Toxicology

10

10

9

11

11

1

6

12

19

7

PHILOSOPHY

General Psychology
 Elementary Logic
 History, Ancient and Mediaeval Philosophy
 Survey of Philosophy
 Advanced Psychology
 Philosophy of Religion
 Introduction to Experimental Psychology
 Descartes and Spinoza
 Psychological Seminary
 Comparative Psychology
 Advanced Ethics
 Esthetics
 Theory of Knowledge
 History of Modern Philosophy
 History of Mediaeval Philosophy
 Locke and Leibnitz
 Metaphysics
 Ethics
 Graduate

26

19

1

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

* Three days at mine.

ROMANCE LANGUAGES

Elementary French	1	1	23	24				180	148	180
Modern French Literature.....	2	2	12	12				102	91	88
French Comedy, XVII Century.....	4	5	6	3				49	46	.....
French Tragedy				6						46
French Prose of XVII Century.....				3						46
Science Reading	7	7	1	2				26	37	25
Advanced Prose Composition	14	14	2	2				11	11	11
French Seminary - A	1	1	2	2				20	18	15
Elementary Italian	1	1	8	8				64	63	45
Elementary Spanish	1	1	2	2				4	4	2
Graduate Courses in French.....				1						

VETERINARY MEDICINE

First Year Anatomy.....	11	12	5	5	10	10	10	48	34	34
Second Year Anatomy.....	37	38	3	8	10	10	4	19	21	21
Material Medica	14		5	2	2	2		24		
General Pathology	24	21	2	5	1	1		21	20	20
General Surgery	21	15	5	5				15	15	15
Special Pathology	26	34	3	1	6	6	6	14	14	14
Principles of Horse Shoeing.....	36	18	1	1	6	6	6	15	15	15
Pathology Laboratory	18	31	3	3	3	3	3	15	15	15
Special Surgery	31	25	5	5	6	6	6	11	11	11
Canine Diseases	27		3	3				15	15	15
Practice in Operating										
Meat Inspection										
Therapeutics										
Obstetrics										
Ophthalmology										
Agricultural Veterinary Medicine.....	28	29	3	4	4	1	1	35	38	26
Dairy Veterinary Medicine.....	17	19	4	4	12	12	12	6	6	6
Clinic	19							15	36	34

ZOOLOGY AND ENTOMOLOGY

Zoology	1	1	4	4	9	9	9	83	75	74
Zoology (Comparative Anatomy).....	2	2	1	1	1	1	4	4	4	4
Zoology Entomology	4	4	1	1	3	3	3	29	29	30
Zoology Household Insects.....	5		3					12		
Invertebrate Morphology	15	17	1	1	8	8	8	8	9	7
Embryology	19	20	1	1	4	4	4	9	8	7
Entomology	23	23	1	1	8	8	8	4	5	5
Research	25	25	1	1	10	10	10	1	2	2
Seminar	26	26	1	1	1	1		6	7	6
Veterinary Embryology	28		3					20		
Thesis								4	5	5
Entomology		10	1	1	1	4	4	3	3	2
Entomology			3						4	4

STATISTICAL TABLE II—SHOWING THE WHOLE NUMBER OF DEGREES IN COURSE CONFERRED SINCE THE FOUNDING OF THE UNIVERSITY.

	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.
Bachelor of arts.....	1	1	6	2	2	1	5	4	6	8	6	1	7	7	2	2	9	19	13	17	18	8	14	16	6	16	68	68
Bachelor of philosophy.....																												
Bachelor of science.....	5	5	1	2	5	3	3	1	1	1	4	6	4	4	8	10	9	19	26	27	27	31	38	37	37	37	7	3
Bachelor of science in agriculture.....																												
Bachelor of science in chemistry.....																												
Bachelor of science in D. Science.....																												
Bachelor of science in H. F.....																												
Bachelor of science in L. Arts.....																												
Bachelor of science in pharmacy.....																												
Bachelor of science in architecture.....																												
Civil engineer.....																												
Mechanical engineer.....																												
Electrical engineer.....																												
Engineer of mines.....																												
Engineer of mines in ceramics.....																												
Graduate in pharmacy.....																												
Master of arts.....																												
Master of science.....																												
Master of agriculture.....																												
Master of science in D. science.....																												
Master of science in H. and F.....																												
Doctor of philosophy.....																												
Doctor of science.....																												
Bachelor of laws.....																												
Master of laws.....																												
Totals.....	6	7	9	8	9	11	12	15	18	24	28	36	30	36	65	70	70	112	118	135	126	90	137	185	141	170	104	209

STATISTICAL TABLE III - SHOWING THE NUMBER OF STUDENTS IN THE GENERAL TECHNICAL AND PROFESSIONAL COURSES

	1900-01.	1901-02.	1902-03.	1903-04.	1904-05.	1905-06.	1906-07.	1907-08.	1908-09.	1909-1900.	1900-01.	1901-02.	1902-03.	1903-04.	1904-05.
General Courses (College of Arts).....	137	151	194	245	256	322	327	358	371	419	439	403	400	406	491
Technical Courses (other Colleges, except Law).....	166	259	281	368	424	453	453	511	541	633	771	888	1,020	1,135	1,129
Professional Courses (College of Law).....		55	67	72	65	100	132	148	191	201	220	188	166	171	179
*Graduate students and summer school.....	2			1		94	97	133	75	45	51	49	62	108	54
†Summer school (shopwork).....															74
Lake Laboratory (Summer).....												19		23	32
Totals.....	305	465	642	686	745	909	1,019	1,150	1,178	1,298	1,481	1,517	1,757	1,923	1,978

* Until 1906, graduate students have been included in the first three classes.

† Until 1914, summer term students in shopwork have been included with graduate students.

STATISTICAL TABLE IV.—SHOWING DEGREES AND CERTIFICATES
GRANTED IN JUNE, 1905

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

BACHELOR OF SCIENCE IN AGRICULTURE

JOHN THOMAS DALLAS.....	Shackleford, Va.
ELKANA ELHANA FINNEY.....	Cedarville
CHESTER GLENN FOSTER.....	London
HENRY HOGE HAMILTON.....	Brownsville
JAMES VERNON HYATT.....	Augusta
WILLIAM A. MARTIN.....	Kenton
EDWARD RUSSELL MINNS.....	Lodi
WILLIAM HENRY PALMER.....	Thurston
JAMES CHALMER WHITE.....	Lebanon
EMERSON SCOTT POSTON.....	Logan
DWIGHT WILSON WEIST.....	Basil
FREDERIC LONG WEST.....	Bloomington
THOMAS LEROY WHEELER.....	Columbus
EDGAR LEVI ZEHRING.....	Germantown

BACHELOR OF SCIENCE IN HORTICULTURE AND FORESTRY

IRA JUDSON CONDIT.....	Jersey
EDWIN CHARLES COTTON.....	Elyria
CHARLES HENRY FLORY.....	Arcanum
RUDO LORENZO FROMME.....	Richmond, Ind.
CHARLES AUSTIN MINER.....	Bristolville
LINDLEY M. SMITH.....	Chesterhill

BACHELOR OF SCIENCE IN DOMESTIC SCIENCE

CLARA NAOMI CAMPBELL.....	Columbus
EMMA EVANS MCKINLEY.....	Columbus
SOPHIA WEBER FOX.....	Columbus
NOLA KATHERINE FROMME.....	Richmond, Ind.
FRIEDA HIRSCH.....	Columbus
NOLA ROWENA KNOX.....	Westerville
ALICE SPITLER.....	Dayton
VIVIEN WATT.....	Freeport
LOULA BELLE THOMPSON.....	Georgetown
OPAL IONE TILLMAN.....	Greenville

MASTER OF SCIENCE IN DOMESTIC SCIENCE

MARY FAYE HILL, B. Sc. (In Domestic Science).....	Columbus
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COLLEGE OF ARTS PHILOSOPHY AND SCIENCE

BACHELOR OF ARTS

DAISY DANIEL BACON.....	Clintonville
MARY BERRY.....	Peebles
MARION LOUISE NICHOLS BIRNIE.....	Chillicothe

EARLE ADELBERT BIXLER.....	Mt. Gilead
SARAH REBECCA BROWN.....	Columbus
MRS. BIRDIE NORTH BRYANT, B. Sc. (National Normal University).....	St. Paris
HAROLD A. BUDD.....	Perrysville
JOHN T. CLARK.....	Louisville, Ky.
FREDERICK DIETZ COCKINS.....	Columbus
LEWIS CLARK COX.....	Xenia
GRACE ADELE DANN.....	Columbus
JOSEPH D. DAVIS.....	Columbus
FRANCIS WILBER DICKEY.....	Clintonville
HENRY CLAUDE DIETERICH.....	Piketon
EDWIN ERNEST DOWLER.....	Washington C. H.
ERNEST HERMAN FLEDDERJOHANN.....	New Knoxville
CLARA MARIA FOLLETT.....	Granville
JOHN CECIL FOUTS.....	West Lafayette
ADA MARIAN FREEMAN.....	Chillicothe
WILLIAM FRANKLIN GEPHART.....	Williamsport
FRANK ROSS GUILFORD.....	Wauseon
RUSSELL INGMAN HARE.....	Marysville
HARRY FRANKLIN HARRINGTON.....	Columbus
JOHN MARION HARSH.....	Cleveland
SANFORD ALPHONSO HEADLEY.....	Jacksonville
MARY TULLER HOLLISTER.....	Galion
MABEL STEVENS HOLT.....	Columbus
MARK CHAPEZE HOUSTON.....	Urbana
KATHERINE DARLINGTON HUNTINGTON.....	Columbus
JESSE DORSEY IAMS.....	Sheridanville, Pa.
OSMER CHARLES INGALLS.....	Camp Chase
JOSEPH HENRY KINDLE.....	Centerville
HUGH JACKSON MEANS.....	Columbus
PAUL DEADY MEEK.....	Columbus
FLORENCE MAY METCALF.....	Columbus
WALTER CHARLES METZ.....	Newark
FRANCES KATHERYN MITZENBERG.....	Columbus
SAMUEL MORRIS.....	Bloomington
HERBERT MERTON MYERS.....	West Alexandria
WILLIAM AUGUSTUS NYE.....	Zanesville
LLOYD GAMBLE OWEN.....	Magnetic Springs
ROBERT GILDERSLEEVE PATERSON.....	Columbus
RAYMOND WOODBURY PENCE.....	Columbus
NIELS MORTENSEN PETERSON.....	Columbus
LYDIA PHILLIPS.....	Columbus
CLARA WILLIAMSON POSTLE.....	Columbus
KATHERINE MAY POTTER.....	Columbus
STANLEY FRANK RANKIN.....	Columbus
STOCKTON RAYMOND.....	Columbus
HELEN ESTELLE ROBERTS.....	Columbus
NOBLE WARREN ROCKEY.....	Dayton
MABEL CATHERINE RODEBAUGH.....	Columbus
RAYMOND EDGAR RUSK.....	Columbus
STANLEY THOMSON SCOFIELD.....	Irononton
WILLIAM ELMER SEALOCK.....	McConnellsville
ELIZABETH SESSIONS.....	Columbus
HAROLD KOCH SHAWAN.....	Columbus

JOHN ALBERT SMITH.....	Arcanum
JOSEPH ALFRED STIVER.....	Germantown
LOIS LEONORE STRICKLER.....	Columbus
OSCAR M. SULLIVAN.....	Columbus
SAMUEL NATHAN SUMMER.....	Shelby
WILLIAM HOWARD TIPTON.....	Caldwell
EMMA ETTA TURNER.....	Columbus
BESSIE LOUISE WAGNER.....	Columbus
HAROLD R. WILLIAMS.....	Urbana
ETHEL WOODBURY.....	Columbus
CLAUDE BURNETT YOUNG.....	West Rushville

BACHELOR OF SCIENCE

THOMAS HUDSON ARMSTRONG, JR.....	Woodfield
DAVID BURNS CLARK.....	Shandon
VERNON FREDERICK PAVEY (as of the Class of 1904).....	Leesburg

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MAX DELOS MORTON, B. Ph.....	Columbus
FRANK MACY SURFACE, B. A.....	Columbus
HARLAN HARVEY YORK, B. Sc. (DePauw University).....	Plainfield, Ind.

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LUMINA COTTON RIDDLE, M. Sc.....	Columbus
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CHARLES ALFRED GUISS.....	New Washington
GUY BURNNETTE BEBOUT.....	Wheeling, W. Va.
EARLE PRICE HAGEMEYER.....	Norwood
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SHELDON DILL COOPER.....	Youngstown
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GEORGE H. WEAVER	St. Louisville
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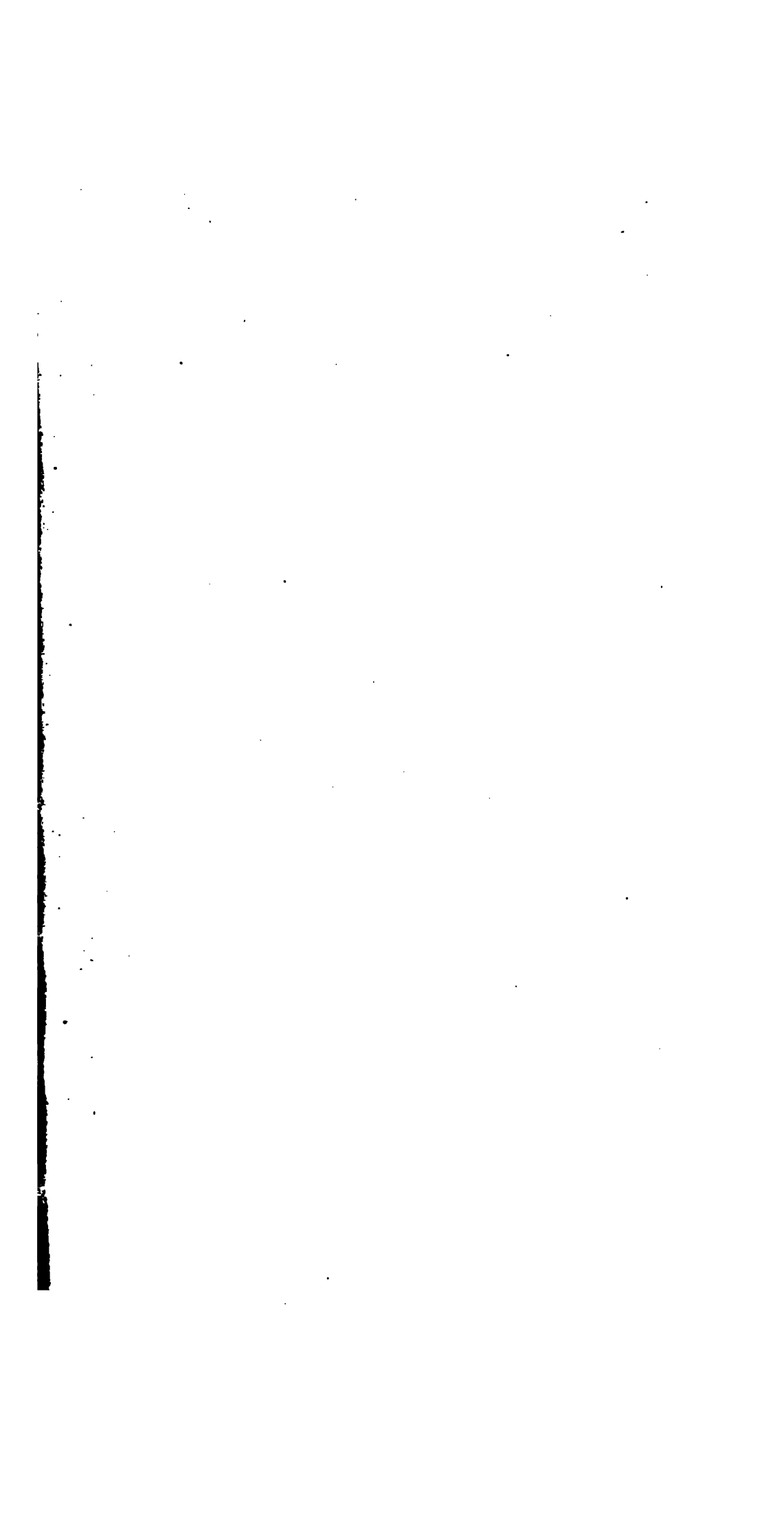
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